



XL-300

Fully Automated Random Access Clinical Chemistry Analyzer



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Fully Automated Random Access Clinical Chemistry Analyzer

- ❑ Random Access Analyzer with STAT facility
- ❑ Versatile System to analyse Substrates Enzymes, Specific Proteins, Drug Assays, D.A.U etc.
- ❑ Storage Unlimited Test Programs, Calculation Items, and User Defined Profiles
- ❑ Choice of 12 wavelengths from 340 to 750 nm with O.D range from 0 to 3.5 Abs
- ❑ Quality Control Program to provide Daily & Monthly Levy-Jennings Graphs & Twin Plot
- ❑ Result Re-calculation Facility based on changes made in measuring time, calibration data etc.
- ❑ Facility of Automatic Re-run with Dilution (Post Dilution) & Facility of Pre-dilution Run
- ❑ Throughput up to 300 Photometric Tests per Hour
- ❑ Allows to use Immuno Turbidimetric, Latex Turbidimetric based methods
- ❑ Fully "OPEN" system allows user to choose reagents of his choice
- ❑ Static photometer design with Diffraction grating and Diode array detectors
- ❑ Lower reagent consumption due to reading volume of 180 ml
- ❑ Controlled through stand alone Pentium IV Computer
- ❑ User Friendly Windows based software
- ❑ Very low D.I water consumption of 8 Liters/Hour



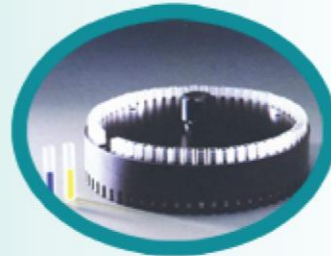


TWIN LAYERED SAMPLE TRAY

- ❑ Outer tray holds 50 sample tubes & any positions may be for STAT samples.
- ❑ Facility to use primary tubes of size 5, 7, 10 ml & Sample cups.
- ❑ Inner tray holds 20 standards, 8 controls & 2 blanks

REACTION CUVETTE TRAY

- ❑ Holds 60 single permanent hard glass cuvettes, eliminates cuvette replacement cost.
- ❑ On-board 7 stage laundry system eliminates carry over.
- ❑ Reaction temperature of 37°C is achieved with dry bath incubation technique.

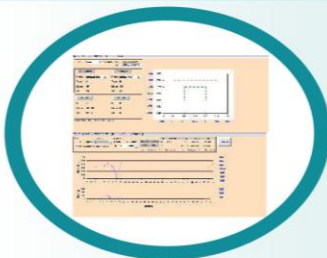
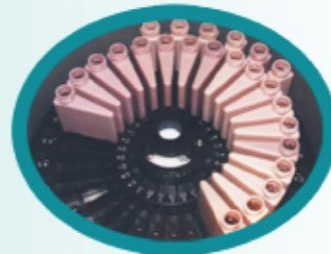


SMART PROBES

- ❑ Separate probes are used for Sample, Reagent 1 (R1) and Reagent 2 (R2).
- ❑ All probes are equipped with Vertical Obstruction Detection system to avoid probe crash.
- ❑ All probes are washed internally with warm pressurized D.I. water (37 °C) & externally with D.I water jet.
- ❑ All probes are equipped with Liquid Level Sensors.

REAGENT TRAY

- ❑ Peltier cooled tray to hold 50 reagent bottles.
- ❑ 50 ml & 20 ml reagent bottles
- ❑ Special adapter for 5 ml reagent bottles.
- ❑ On line inventory management of on-board reagents.



QUALITY CONTROL GRAPH

- ❑ Extensive Quality Control Program to provide Daily & Monthly Levy-Jennings Graphs and Twin Plots.
- ❑ User definable test frequency for Automatic Run of Quality Control
- ❑ Three Different level controls per test can be defined.

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Unique Features

- ✓ Result re-calculation facility eliminates repeat runs
- ✓ Soft Start and Stop of all Reagent and Sample probes
- ✓ Vertical Obstruction Detection (VOD) system of XL 300 detects obstructions and protects the probe needles from damage
- ✓ Separation of biohazardous waste for safe disposal
- ✓ Weight based level sensing platform with alarms for D.I. water, cleaning solution and waste containers
- ✓ Storage of Calibration Trace Data with Reagent Blank O.D. and Calibration O.D

Technical Specification

System	: Automated, Discrete, Random Access, Patient Prioritised Chemistry Analyzer
Throughput	: 300 photometric Test per Hour Independent of test combination
On-line tests	: Maximum 50 tests
Programmable Parameters	: Unlimited Test, Calculation items and user defined profile
Assay modes	: 1-Point, 2-Point, Rate-A and Rate-B
Calibration	: Linear, Non-linear, Multipoint curve up to 10 point
Sample disk capacity	: Outer ring 50 positions for patient samples (routine) and any positions for STATS
Inner ring	: 20 positions for standards / calibrators, 2 blanks & 8 controls
Sample disk	: Primary tubes of 5, 7 or 10 ml & Sample cups
Reagent disk	: Cooled reagent disk with 50 positions
Reagent pipetting	: R1 = 50-300 µl R2 = 10-200 µl (adjustable in 1 µl step)
Sample pipetting	: 2-70 µl steps of 0.1 µl
Reagent bottles	: 20 ml, 50 ml & special adapter for 5 ml bottles
Reaction disk	: 60 Permanent Individual Hard Glass Cuvettes
Photometry	: Mono & Bi-chromatic measurements with Multi-wavelength diffraction grating with 12 wavelength options (340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 & 750 nm)
Reading volume	: 180µl
Auxiliary data storage	: Unlimited
Interface	: RS 232
Power supply	: 110/220 ± 10%. 50/60 Hz, 1.0 KVA
Computer (requirements)	: Pentium IV with color monitor, CD Drive, 256 MB RAM & Printer
Ambient temperature	: 20 - 30° C
Ambient humidity	: 20 - 85% non condensing
Water consumption	: Max. 8 ltrs/hour
Dimension	: 840 (W) x 610 (D) x 1100 (H) mm
Weight	: Max. 150 kgs. (Main unit with CPU)
Absorbance Range	: 0 - 3.5 Abs



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