

XL-300

Fully Automated Random Access Clinical Chemistry Analyzer

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 Specifications*

System	: Automated, Discrete, Random Access, Patient Prioritised Chemistry Analyzer
Throughput	: 300/360 [#] Photometric Tests per Hour Independent of test combination ; (360 tests/hr for China & Turkey only)
On-line tests	: Maximum 50 tests
Programmable Parameters	: Upto 99 Photometric Tests, 10 Calculation Items
Assay modes	: 1 -Point, 2-Point, Rate-A and Rate-B
Calibration	: Linear, Non-linear Multipoint
Sample disk capacity	: Outer ring : 50 positions for patient samples (routine) includes 5 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	: 10-300 µl steps of 1 µl. Possibility of 1 or 2 reagent tests
Sample pipetting	: 1-60 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	: 250 µl
Auxiliary data storage	: 1,00,000 results
Interface	: RS 232
Power supply	: 110/220 ±10%, 50/60 Hz, 1.0 KVA
Computer (requirements)	: Pentium IV with colour 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)

360 tests/hr option for China & Turkey only

ISE option for Turkey & China against specific requests only

* Specifications subject to change without prior notice.

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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 of 99 Test Programmes, 10 Calculation Items, 10 User Defined Profiles
- Choice of 12 wavelengths from 340 to 750 nm with O.D. range from 0 to 3.5 Abs
- Quality Control Programme to provide Daily & Monthly Levy-Jenning 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
- Database to store over 1,00,000 Results, 9,999 Reaction Graphs, 250 Referral Doctors etc.
- Throughput of 300/360[#] Photometric Tests per Hour (360 tests/hr option for China & Turkey only)
- 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 250 µl
- Controlled through stand alone P-IV Computer
- User friendly Windows based software
- Very low D.I. water consumption of 8 Litres / Hour

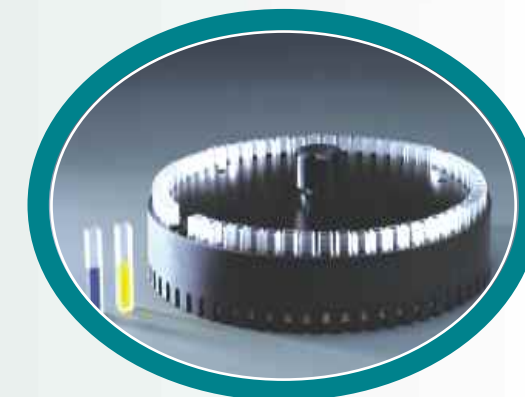


TWIN LAYERED SAMPLE TRAY

- Outer tray holds 50 sample tubes & last 5 positions may be used 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.
- Patient run allows use of all 20 standard positions for STAT samples.

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.



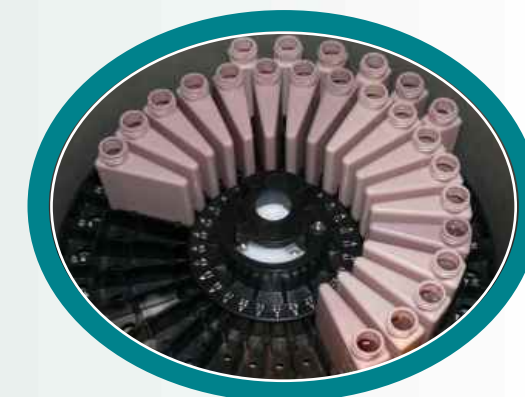
SMART PROBES

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

