

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
- Float sensor based 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	: Unlimited tests
Programmable Parameters	: Unlimited tests can be programmed
Assay modes	: 1 -Point, 2-Point, Rate-A and Rate-B
Calibration	: Linear, Non-linear, Multipoint, K factor
Sample disk capacity	: Sample Tray - Inner ring : 25 positions for routine patient samples Outer ring : 25 positions for routine patient samples (Any position can be used for STAT) Standard Tray - Inner ring: 2 Blanks, 8 Controls, 2 ISE solutions (Optional), Outer ring: 20 positions each on Disk 1 & Disk 2 separately for Standard's
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 - R1=75-300µl R2 = 0 or 10-300 µl
Sample pipetting	: 2-70 µl steps of 0.2 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	: 200 µl
Auxiliary data storage	: Unlimited Storage
Barcode reader	: Both for sample and reagent trays (optional)
Interface	: RS 232 / Bi-directional
Power supply	: 110/220 ±10%, 50/60 Hz, 1.0 KVA
Computer (requirements)	: Pentium IV with colour monitor, CD Drive, 2 GB 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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TIBDXL300BR17051TV

XL-300

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.

➤ Unlimited Test Programmes, Any number of calculation items, Unlimited test 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

➤ Unlimited data storage including results

➤ 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 200 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

➤ Total 50 positions - for holding direct primary tubes / Any position can be programmed as STAT/Inner tray has position for 20 standards, 8 controls & 2 blanks

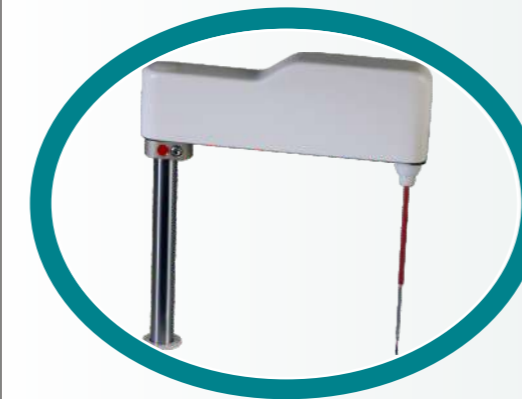
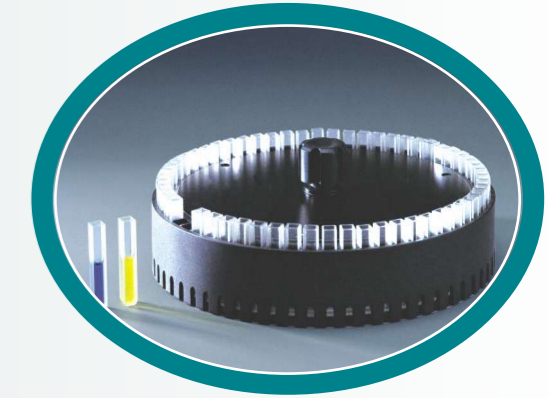
➤ Facility to use primary tubes of size 5, 7, 10 ml & Sample cups.

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.

➤ Multiple level controls per test can be defined.