

# Erba XL-300

Fully Automated Random Access Clinical Chemistry Analyzer

Exported to over 50 Countries

Over 500 successful Installations





# Erba XL-300

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 Tests / 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 250  $\mu$ l

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.

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## UNIQUE FEATURES

- Vertical Obstruction Detection (VOD) system of XL 300 detects obstructions and protects the probe needles from damage
- 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.
- Soft Start and Stop of all Reagent and Sample probes
- Separation of biohazardous waste for safe disposal
- Result re-calculation facility eliminates repeat runs

## TECHNICAL SPECIFICATIONS

System	: Automated, Discrete, Random Access, Patient Prioritised Chemistry Analyzer
Throughput	: 300 Tests / Hour Independent of test combination
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)

\* Specifications subject to change without prior notice.

Manufactured at



Facilities



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