

XL 640

Fully Automated Random Access
Clinical Chemistry Analyzer



Floor Model

Technology Redefined



CLOUD-BASED SERVICE

Integrated Internet of Things (IoT) sensors to enhance efficiency.

SAMPLE TRAY

- 82 positions sample tray
- STAT samples can be loaded at any position
- Facility to use Primary tubes of 5 ml, 7 ml, 10 ml & sample cups

REAGENT TRAY

- 56 reagent positions with on-board cooling
- 50 ml & 20 ml reagent bottles, 5 ml adaptor tube
- Online reagent inventory management
- Multiple reagent positions

ACCURATE RESULTS

High resolution, optically corrected, diffraction grating with 12 wavelengths from 340 nm – 750 nm ensures high degree of photometric accuracy for the entire clinical chemistry range.

CAPACITANCE PROBE

Capacitance probes with liquid level sensing and Vertical Obstruction Detection (VOD) ensure accurate level detection, thereby protecting the probes from potential damage.

CLOT DETECTION

Ensures proper sample dispensing

HIGH TURNAROUND

- Throughput of 640 tests per hour with ISE (Na⁺ / K⁺/Cl⁻/ Li⁺)

ENVIRONMENT FRIENDLY

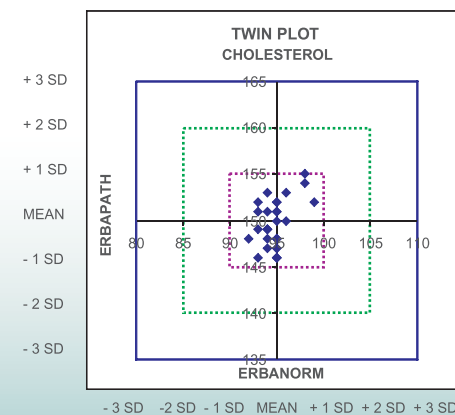
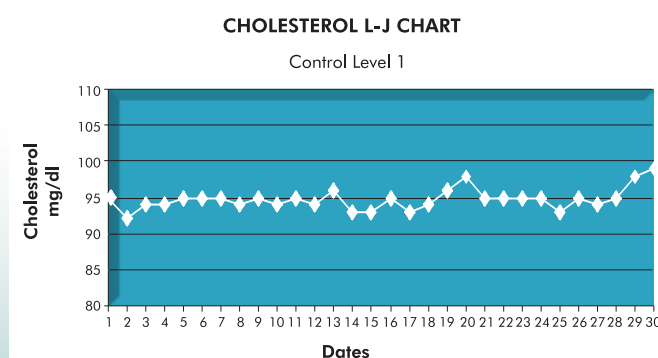
- 72 permanent hard glass cuvettes eliminate recurring cost of disposable cuvettes and avoid plastic usage.
- On-board laundry station for better precision & accuracy



Floor Model

QUALITY CONTROL

XL 640 - provides option for both **Levey - Jennings** and **Twin plot** quality control charts in its software; thereby providing an added advantage to simultaneously monitor two levels of control for better quality management. The Levey - Jennings chart is used to monitor performance of two control levels.



OFFERING TOTAL SOLUTIONS REAGENTS:

Flexibility to choose the right pack size for variable work loads:

- Erba XL system packs
- Small system packs
- ITA system packs

CONTROLS:

- Erba Norm and Path
- HbA1c L and H
- ASO / CRP / RF L and H
- Microalbumin
- ADA

CALBRATORS:

- XL Multical
- ADA
- HbA1c set

EMQAS:

(External QC program) Basic / Advanced / Plus (6 / 12 months)

EXTENSIVE TEST MENU

- All routine clinical chemistry tests
- Immunoturbidimetric assays such as ASO, RF, CRP, etc.
- Therapeutic drug monitoring tests
- Specialized chemistries such as HbA1c, ADA, Apo(A), Apo(B), Lp(a), etc.

Technical Specifications

SYSTEM GENERAL

System Type:

Discrete, automated, random access, patient prioritized clinical chemistry analyzer

Throughput:

400 tests / hour photometric and 640 tests / hour with ISE* (*optional ISE with Na⁺, K⁺, Cl⁻, Li⁺)

Analytical Methods:

1-Point, 2-Point, Rate-A, Rate-B, Direct Potentiometry (optional)

Barcode Reader:

For reagents and samples (optional)

Reaction Tray:

72 hard glass cuvettes

Reaction Mixing:

Stirrer with variable speed

Reading Volume:

180 µl

On-board Laundry:

6 stage cleaning, 2 stage drying

Photometer:

Multi-wavelength diffraction grating with 12 wavelengths (340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700, 750 nm)

OD Range:

0.0 - 3.0

Light Source:

Halogen lamp

Detector:

Silicon photo-diode

Water Consumption:

< 14 litres

Programmable Parameters:

Default system pack parameters + upto 99 user defined parameters, Unlimited profiles and unlimited calculation items

Quality Control:

QC plot data with QC rules. Provision for lab mean. Twin plot

Calibration:

K-Factor, Linear (1, 2 point & multipoint), 4P and 5P Logit-log, cubic spline, exponential, polynomial. On-board serial dilution for calibrator

Power Requirement:

AC 220 V ± 10 %, 50 Hz or AC 110 V ± 10 %, 60 Hz

Power Consumption:

800 VA

Dimension: (mm)

Approx. 897 (L) x 655 (B) x 1170 (H)

Weight:

Approx. 200 kgs.

SAMPLE HANDLING

Sample:

Serum, Plasma, Urine, CSF, Whole blood, other

Sample Unit:

82 positions for samples, blank, controls, calibrators, STAT sample

Sample Pipetting:

2 - 70 µl (adjustable in 0.1 µl step) for Biochemistry, 70 µl fixed for ISE
Capacitance probe with liquid level sensing & vertical obstruction detection, Clot detection & serum indices

Auto Rerun:

Repeat with same, increased or decreased volume (upto 1:150)

Sample Tubes / Cups:

Primary tubes of 5 ml, 7 ml, 10 ml and sample cups

REAGENT HANDLING

Reagent Tray:

56 positions for reagents with onboard cooling

Reagent Pipetting:

R1 : 60 - 300 µl (adjustable in 1 µl step)
R2 : 0 or 10 - 300 µl (adjustable in 1 µl step)
Capacitance probe with level sensing & vertical obstruction detection

SYSTEM INTERFACE:

Analyzer-PC: USB

PC - Host Computer: Bidirectional TCP / IP & RS - 232

PC - Printer: USB

Operating System:

Windows Based

Database:

Unlimited Results

Specifications are subjected to change without prior notice. (*Optional ISE with Na⁺, K⁺, Cl⁻, Li⁺ available on request at cost)

Transasia - Erba Group

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