TECHNICAL SPECIFICATION

System type	Automatic clinical chemistry analyzer – open, random access system, STAT samples processing
Throughput	400 photometric tests/hour 640 tests/hour with ISE
Simultaneous measurement items	Max. 45 photometric tests + 4 ISE
Sample type	Serum, plasma, urine, CSF
No. of programmable parameters	96 photometric tests, 40 calculation items and 4 ISE parameters
Assay method	End-point, kinetic, ISE (direct potentiometry)
Calibration type	Linear (one point, multi point), exponential, polynomial, factor
Optical system	Halogen lamp, 12 wavelenghts: 340, 376, 415, 450, 480, 505, 546, 570, 600, 660, 700 and 750 nm (diffraction grating)
Reagent Tray	56 refrigerated positions (8-12°C) 5, 20, 50 ml reagent containers
Sample Tray	80 positions Outer ring – 50 position for samples Inner ring – 30 positions for blanks, standards, calibrators, controls and ISE solutions
Reagent dispensing	2 independent dispensing probes with liquid-level sensor Dispensed volumes: R1 50 – 300 µl with 1 µl step R2 10 – 300 µl with 1 µl step
Minimal reaction volume	180 µl
Reaction tray	72 reusable hard glass cuvettes, optical path length 5 mm
Mixing system	2 independent stirrers, 3 mixing speeds
QC	Levey-Jennigs graphs, Westgard rules
Barcode reader	Built-in barcode reader
Water consumption	Max. 13 l/hod.
PC requirements	Operating system: MS Windows XP or MS Windows 7, Pentium 4, RAM 512 MB, HDD 200 GB, resolution 1024 x 768
Power supply	220 V ± 10 %, 50 Hz ± 5%, 1 000 VA
Dimensions, weight	910 (w) x 780 (d) x 1 160 (h)
Backup	Complete or selected data

XL-640

Fully Automatic Clinical Chemistry Analyzer

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Clinical Chemistry Analysis
Easily, Quickly, Efficiently

XL 640

Available automation of analysis

DISPENSING OF SAMPLES AND REAGENTS

- Sample volume: 2-70μl (0.2 μl step)
- Reagent volume: R1 50-300 ul (1 μl step)
                      R2 10-300 ul (1 μl step)
- 3 dispensing probes (sample, R1, R2) equipped with liquid -level sensor and crash detector
- Auto-dilution of samples and calibrators
- Clot detection

ECONOMY
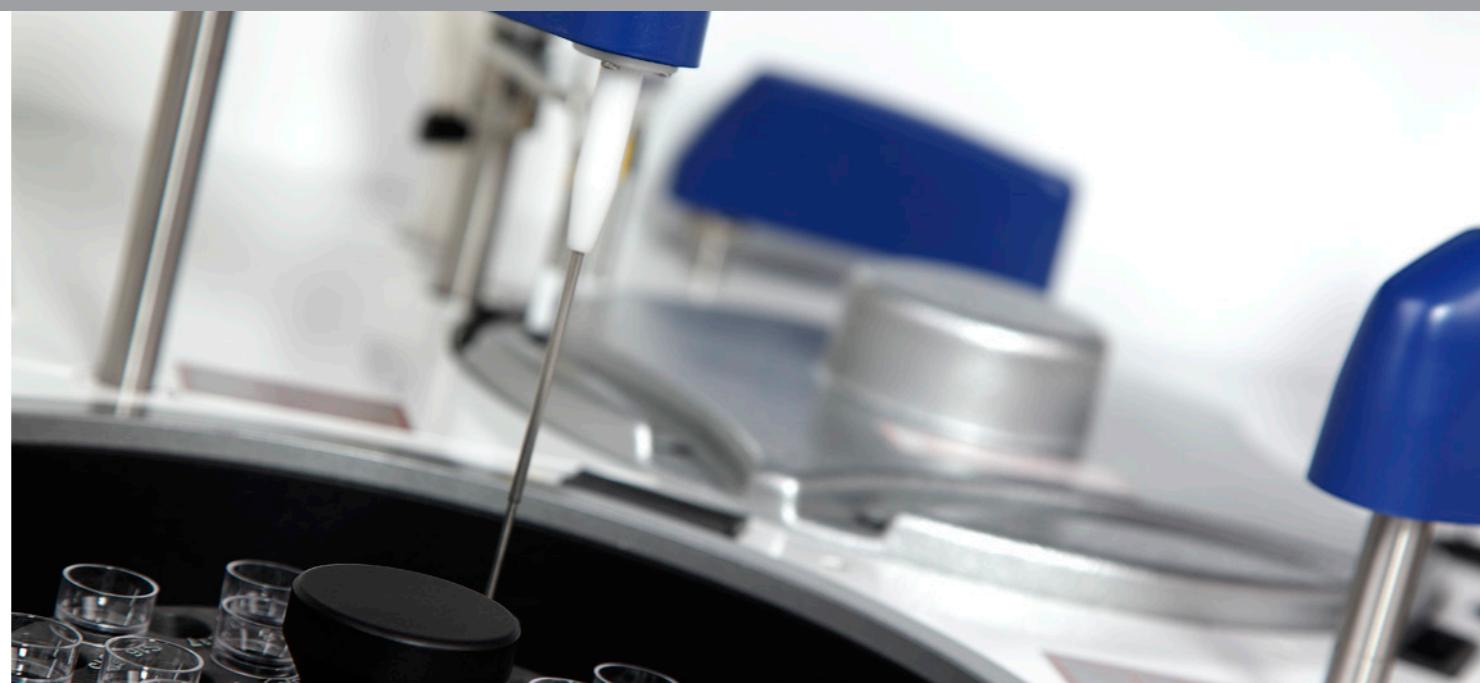
- Minimum reaction volume: 180 μl
- Reusable reaction cuvettes

MIXING SYSTEM

- 2 independent stirrers
- 3 user selectable mixing speeds
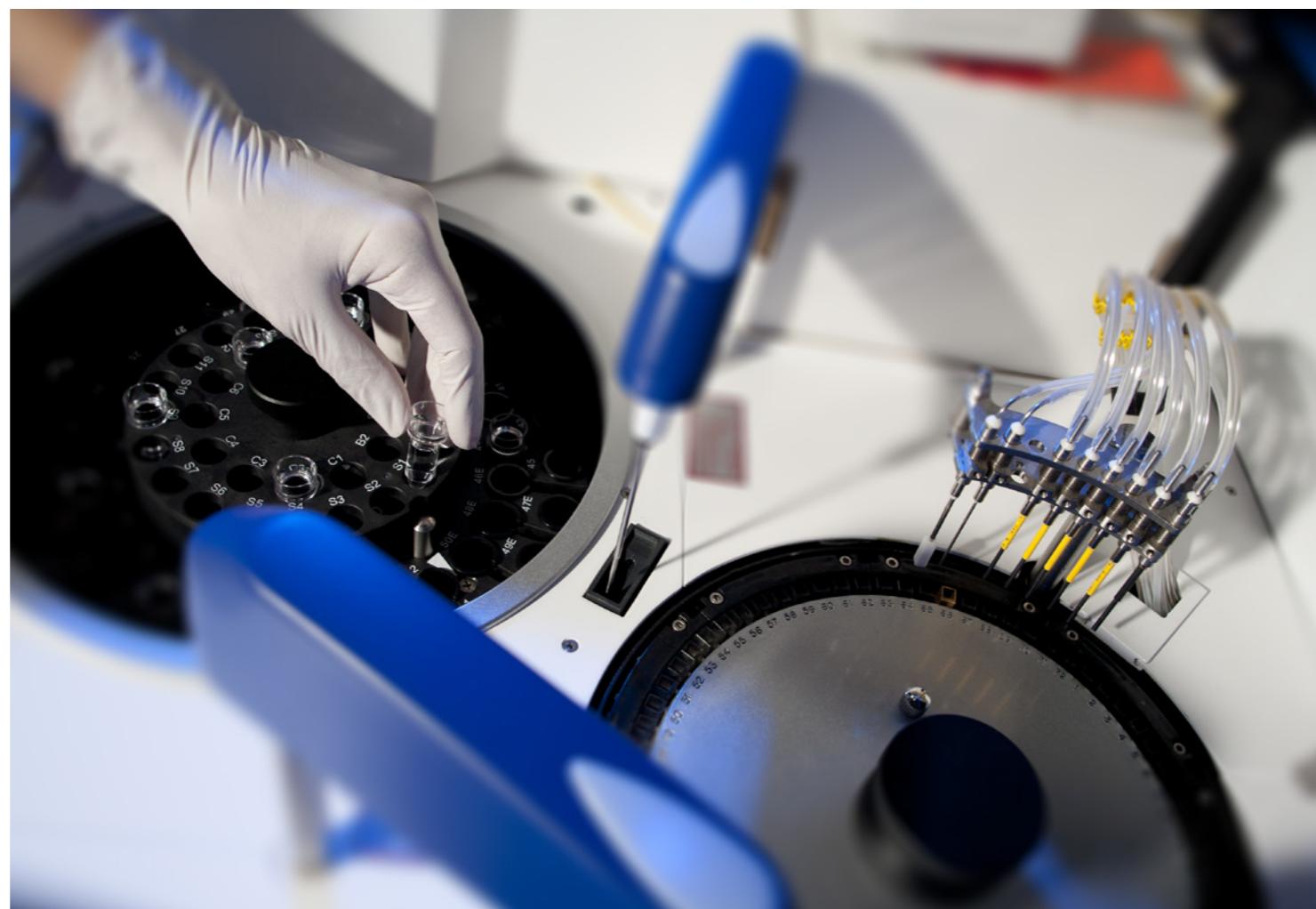
QUALITY CONTROL

- 4 levels of control material can be used
- Levey-Jennigs graphs
- Twin Plot diagrams for monitoring of systematic and random error

REACTION UNIT WITH WASH STATION

- 72 reusable hard glass cuvettes
- Possibility of replacement of individual cuvette
- Wash station – cuvette rinsing and drying in eight-step procedure
- Automatic cuvette blank measurement before analysis

SAMPLE TRAY

- 80 positions for samples, blanks, standards, calibrators, controls and ISE solutions
- Primary tubes 5, 7 and 10 ml, vacuum system tubes and cups
- STAT sample with priority in any position
- Additional tray for 80 samples included

REAGENT TRAY

- 56 positions, 20 ml, 50 ml reagent containers, 5 ml tube with adaptor
- Reagent compartment with Peltier/air cooler (8-12°C)
- Option to use one reagent for several test simultaneously

SOFTWARE

- Convenient user interface
- Connection to LIS
- Programmable auto-start from sleep mode including automatic daily maintenance
- Statistical methods of processing results
- Data export in selected format

MEASUREMENT MONITORING

- Colour indication of sample analysis
- Possibility of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyzer status