

TECHNICAL SPECIFICATIONS

SYSTEM TYPE

Automatic clinical chemistry analyser – random access system, STAT samples processing

THROUGHPUT

200 photometric tests/hour
360 tests/hour with ISE

SIMULTANEOUS MEASUREMENT ITEMS

Up to 45 photometric tests + 4 ISE

SAMPLE TYPE

Serum, plasma, blood, urine, CSF, other biological fluids

NO. OF PROGRAMMABLE PARAMETERS

No limit on Test parameters or calculated tests and 4 ISE parameters (Na, K, Cl, Li)

ASSAY METHODS

End-point, kinetics, ISE (direct potentiometry)

CALIBRATION TYPE

Linear (one point, multi point), exponential, polynomial, factor, cubic spline, Logit-Log 4P, Logit-Log 5P

OPTICAL SYSTEM

Halogen lamp, 8 filters: 340, 405, 505, 546, 578, 600, 660 and 700 nm

REAGENT TRAY

50 refrigerated positions (8-12°C)
5, 20, 50 ml reagent containers

SAMPLE TRAY

39 positions:
Outer ring – 30 position for samples
Inner ring – 9 positions for blanks, standards, calibrators, controls and ISE solutions

REAGENT DISPENSING

One dispensing probe with liquid-level sensor
Dispensed volumes:
R1 50-300 µl – adjustable in 1 µl step
R2 10-200 µl – adjustable in 1 µl step

MINIMAL REACTION VOLUME

180 µl

REACTION TRAY

45 reusable hard glass cuvettes, optical path length 5 mm

MIXING SYSTEM

Independent stirrer

QC

Levey-Jennigs charts, Westgard rules

BARCODE READER

Built-in barcode reader for samples and reagents

WATER CONSUMPTION

Maximum 6 litres/hour

PC REQUIREMENTS

Operating system: Up to Win 10, Pentium 4, RAM 2 GB, HDD 200 GB

POWER SUPPLY

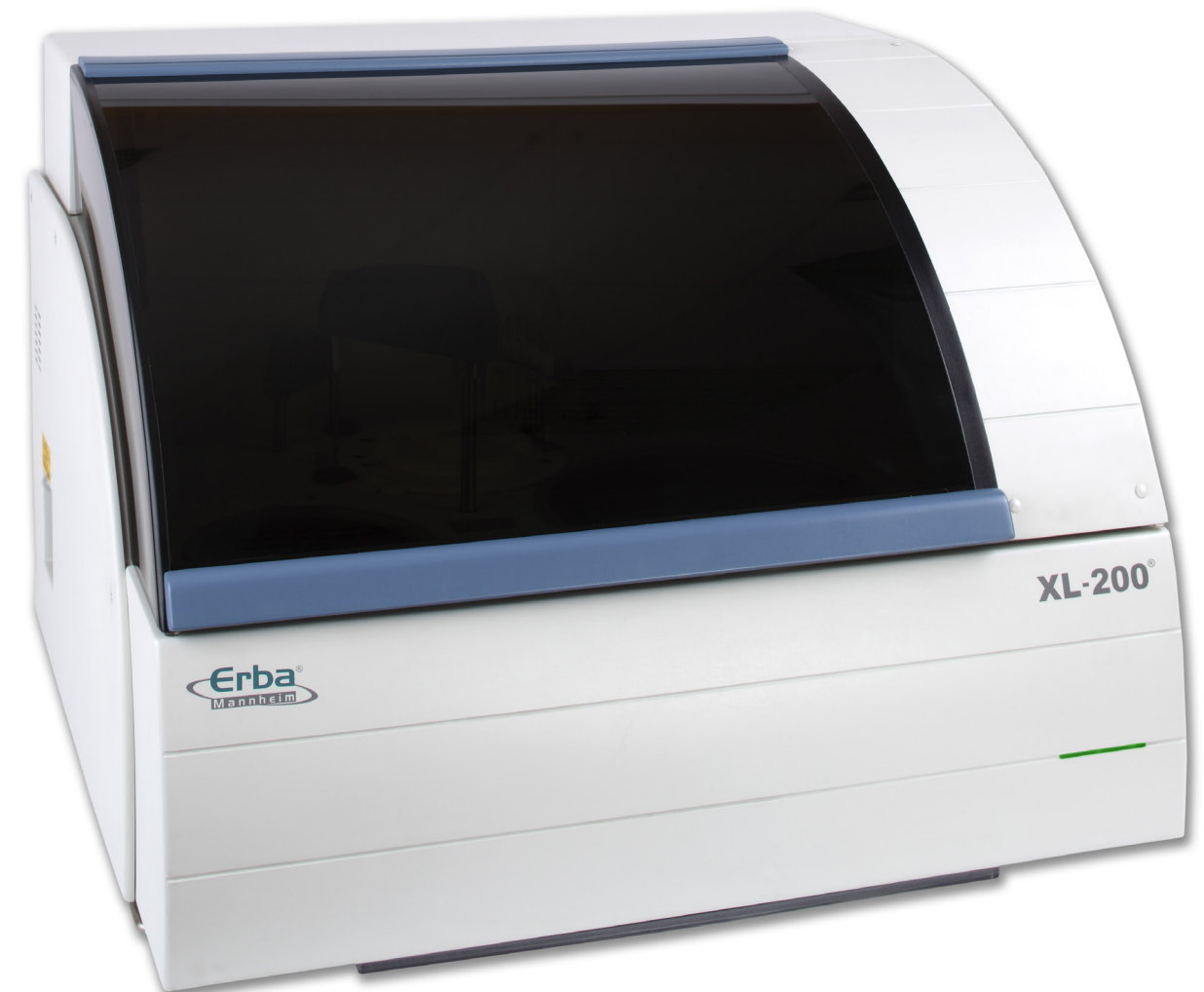
220 V ± 10 %, 50 Hz ± 5 %, 600 VA

DIMENSIONS

810 mm (w) x 800 mm (d)
x 1 160 mm (h)

WEIGHT

120 kg



OPTIMAL SOLUTION
FOR SMALL AND MEDIUM
LABORATORIES



Erba Lachema s.r.o.
Karásek 2219/1d, 621 00 Brno, Czech Republic
Phone: +420 517 077 111
E-mail: sales@erbamannheim.com
www.erbamannheim.com

TOTAL SOLUTIONS FOR CLINICAL DIAGNOSTICS

Version No 1.1

XL200
AUTOMATIC CLINICAL
CHEMISTRY ANALYSER

XL200

Reliable automation
of clinical chemistry analysis

DISPENSING OF SAMPLES AND REAGENTS

- Sample volume: 2-70 μl (in 0,1 μl step)
- Reagent volume: R1 50-300 μl (in 1 μl step),
R2 10-200 μl (in 1 μl step)
- Multifunctional probe equipped
with liquid -level sensor and crash detector
- Auto-dilution of samples and calibrators

ECONOMY

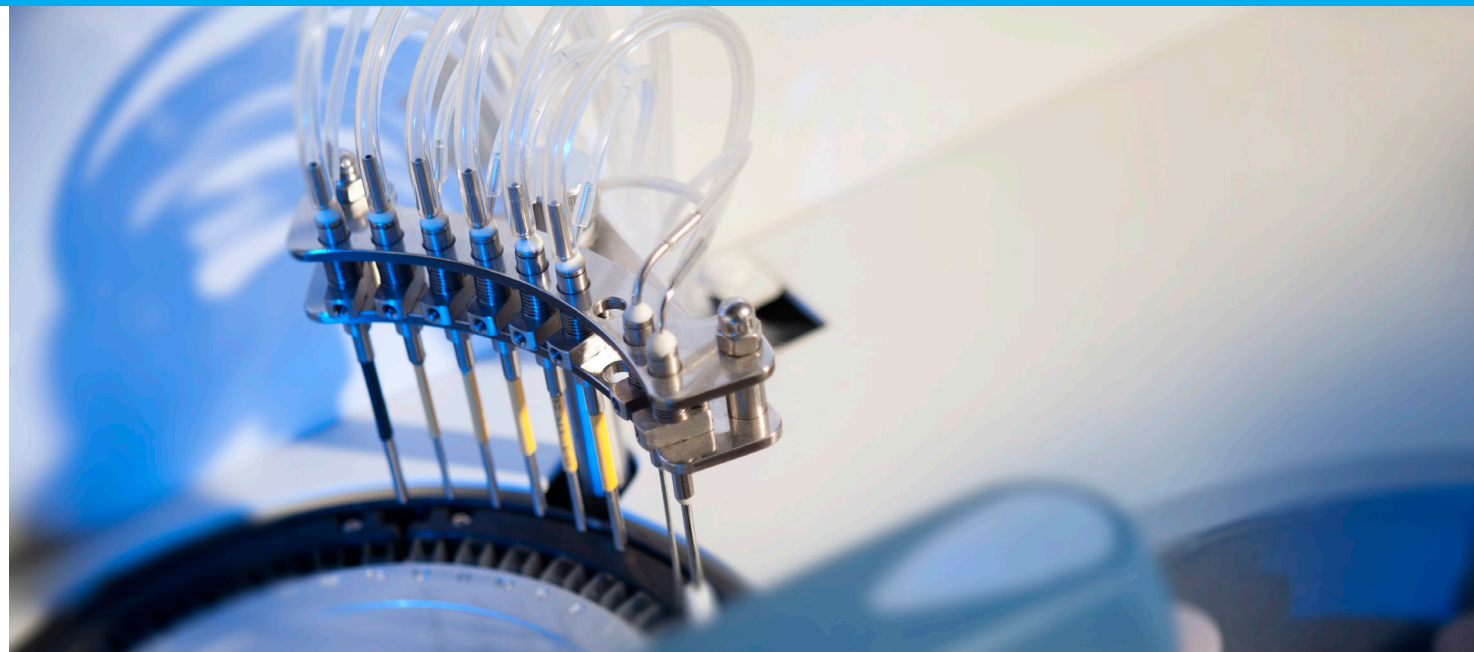
- Minimum reaction volume: 180 μl
- Reusable glass reaction cuvettes

MIXING SYSTEM

- Independent stirrer
- 3 user selectable mixing speeds

QUALITY CONTROL

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



REACTION UNIT

- 45 reusable hard glass cuvettes
- Possibility of replacement of individual cuvettes
- Wash station - cuvette rinsing and drying in 8 steps
- Automatic cuvette blank measurement before analysis
- Reaction temperature $37^{\circ}\text{C} \pm 0,2^{\circ}\text{C}$

SAMPLE TRAY

- 39 positions for samples, blanks, standards, calibrators, controls and ISE solutions
- Primary tubes 5, 7 and 10 ml and cups
- STAT sample with priority in any position
- Possibility of programming up to 99 virtual trays



REAGENT TRAY

- 50 positions, 20 ml, 50 ml reagent containers, 5 ml tube with adaptor)
- Reagent compartment with Peltier/air cooler ($8-12^{\circ}\text{C}$)
- Option to use one reagent
for several tests simultaneously

SOFTWARE

- Convenient user interface
- Connection to LIS
- Statistical methods of processing results
- Data export in selected format



MEASUREMENT MONITORING

- Color indication of sample analysis
- Option of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyser status

