



# MEET THE XL-1000

Fully automatic clinical chemistry analyser



Making Automation Affordable  
for Labs Everywhere

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# Fully automatic clinical chemistry analyser

Reliable and Efficient solution for medium and large laboratories.



## DISPENSING OF SAMPLE AND REAGENT

- Sample volume: 2-60  $\mu$ l (0.1  $\mu$ l step), 70  $\mu$ l with ISE
- Reaction volume: 150  $\mu$ l – 550  $\mu$ l
- Clot detection
- 3 dispensing probes ( R1, R2/R3) equipped with liquid - level sensor and crash detector
- Auto-dilution of samples and calibrators



## SAMPLE AUTOLOADER

- 115 sample positions on automatic autoloader
- Primary tubes 5, 7 and 10 ml, vacuum system tubes
- Barcode reader for sample identification
- 23 racks



## REAGENT, STAT AND REACTION TRAYS

- Reagent Trays: 2x 43 cooled positions
- System packs: 50 ml, 20 ml and 5 ml (adapter)
- Barcode reader for easy identification
- Stat Tray: 45 positions
- Can be used for blank, controls, STAT samples
- Reaction Tray: Mixing system with 3 speed levels
- 147 hard glass reaction cuvettes
- Wash station: cuvette rinsing and drying
- Automatic cuvette blank measurement before analysis



## Key features of XL-1000

### QUALITY CONTROL

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

### 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
- Option of monitoring the reaction in real time
- Reagent volume monitoring
- Informative reports on ongoing analyser status



# Technical Specifications

<b>System Type</b>	<b>Sample Type</b>
Discrete, automated, random access, patient prioritized, 1/2/3 reagent system	Serum, plasma, blood, urine, CSF, other biological fluids
<b>Throughput</b>	<b>Assay Modes</b>
800 photometric tests/hour 1040 tests/hour with ISE	1-Point                      Rate-A 2-Point                      Rate-B
<b>Measurement Principle</b>	<b>Reagent Tray</b>
End Point(s), Rate(s), Turbidimetric and Latex Enhanced Immunoassays, Direct Potentiometry (ISE)	Reagent 1 tray and Reagent 2 tray: 43 position each for 50 ml, 20 ml vials and 5 ml with adapter
<b>Applicable Analytes Photometric Assays</b>	<b>Calibration Type</b>
Enzymes, lipids, proteins, sugars, nitrides, inorganic substances, complements, immunoassays and others	Linear (one point, multi point), exponential, polynomial, factor, spline, Logit-Log 4P, Logit-Log 5P
<b>Programmable Parameters</b>	<b>Sample Volume</b>
No limit on Test parameters or calculated tests	2-60 µl (adjustable in 0.1 µl step) for Biochemistry, 70 µl (fixed) for ISE
<b>Barcode Identification</b>	<b>Safety Mechanism</b>
Sample Rack, Sample container, Reagent	Sample clot detection
<b>Water Consumption</b>	<b>Quality Control</b>
Up to 25 litres/hour	Levey-Jennigs graphs,
<b>Reaction Temperature</b>	<b>Reaction Volume</b>
37 °C	150 µl to 550 µl
<b>PC Requirements</b>	
Operating system: Up to Win 10, Pentium Core 2 Duo, RAM 2 GB or above, HDD 200 GB, resolution 1024 x 768	



## Dedicated Reagents on XL Instruments

Cat No.	Pack Name	Product Name	Method	Pack Size		Test/Kit
				R1	R2	
				Vials x Vol (mL)		
XSYS0001	ALB 440	Albumin	BCG	10 x 44		2000
XSYS0002	ALP 110	Alkaline Phosphatase	IFCC, AMP	2 x 44	2 x 11	640
XSYS0003	AMY 110	Alpha Amylase	CNPG3	5 x 22		650
XSYS0017	ALT/GPT 330	ALT/GPT	Modified IFCC	6 x 44	6 x 11	1920
XSYS0102	Apo A	Apolipoprotein A	Latex Immunoturbidimetry	2 x 28	2 x 7	200
XSYS0103	Apo B	Apolipoprotein B	Latex Immunoturbidimetry	2 x 21	2 x 6	220
XSYS0046	ASO	Antistreptolysin (O)	Immunoturbidimetry	2 x 40	2 x 10	450
XSYS0016	AST/GOT 330	AST/GOT	Modified IFCC	6 x 44	6 x 11	1920
XSYS0028	BIL D 330	Bilirubin Direct	Walter & Gerard	6 x 44	6 x 11	1500
XSYS0086	BIL D DCA 330	Bilirubin Direct DCA	With DCA	6 x 44	6 x 11	1500
XSYS0023	BIL T 330	Bilirubin Total	Walter & Gerard	6 x 44	6 x 11	1500
XSYS0087	BIL T DCA 330	Bilirubin Total DCA	With DCA	6 x 44	6 x 11	1500
XSYS0007	CA 120	Calcium	Arsenazo	10 x 12		500
XSYS0008	CL 120	Chloride	Mercuric Thiocyanate	10 x 12		500
XSYS0009	CHOL 440	Cholesterol	CHOD POD	10 x 44		2000
XSYS0100	CO2	Bicarbonate (with CAL)	Enzymatic	4 x 34	Std 1x5	600
XSYS0047	CRP	C-Reactive Protein	Immunoturbidimetry	2 x 40	2 x 10	400
XSYS0084	CRP-HS	C-Reactive Protein HS	Immunoturbidimetry	2 x 40	2 x 8	300
XSYS0024	CREA 275	Creatinine	Jaffe	5 x 44	5 x 11	1600
XSYS0085	CREA ENZ 200	Creatinine Enzymatic	Enzymatic	5 x 30	5 x 10	900
XSYS0022	CK 110	Creatinine Kinase	IFCC & DGKCH	2 x 44	2 x 11	640
XSYS0029	CK MB 110	Creatinine Kinase MB	Immunoinhibition	2 x 44	2 x 11	500
XSYS0011	GGT 110	Gamma-Glutamyl Transferase	SZASZ	2 x 44	2 x 11	640
XSYS0012	GLU 440	Glucose	GOD POD	10 x 44		2000
XSYS0095	GLU HK 330	Glucose HK	Hexokinase	6 x 44	6 x 11 Std 1x4	1350
XSYS0096	HbA1c	HbA1c - 2R	Latex Immunoturbidimetry	2 x 21	2 x 7	230
XSYS0043	HDL C 160	HDL Direct	Direct Method PVS & PEG	4 x 30	4 x 10	600
XSYS0049	FE 125	Iron	Ferrozine	4 x 25	4 x 6,5	560
XSYS0101	FRTN	Ferritin	Latex Immunoturbidimetry	2 x 15	2 x 7,7	240
XSYS0013	LDH 110	Lactate Dehydrogenase - P	DGKCH	2 x 44	2 x 11	640
XSYS0044	LDL C 80	LDL Direct	Direct Method PVS & PEG	2 x 30	2 x 10	300
XSYS0081	LIP 110	Lipase	Enzymatic, colorimetric	2 x 44	2 x 11	640
XSYS0040	MG 88	Magnesium	Xylidyl Blue	2 x 44		400
XSYS0083	MAL	Microalbumin	Immunoturbidimetry	2 x 30	2 x 6,3	330
XSYS0027	MP 120	Microprotein	Pyrogallol Red	10 x 12	Std 1x5	500
XSYS0015	PHOS 120	Phosphorus	UV Phosphomolybdate	10 x 12		500
XSYS0048	RF	Rheumatoid Factor	Immunoturbidimetry	2 x 40	2 x 8	400
XSYS0018	TP 440	Total Protein	Biuret	10 x 44		2700
XSYS0041	TG 440	Triglycerides	GPO	10 x 44		2000
XSYS0050	UIBC 125	UIBC	Ferrozine	4 x 25	4 x 6,5 Std 1x4	560
XSYS0020	UREA 275	Urea	Urease GLDH	5 x 44	5 x 11	1250
XSYS0021	UA 275	Uric Acid	Uricase	5 x 44	5 x 11	1250
XSYS0042	UA 440	Uric Acid	Uricase	10 x 44		2000

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reagents and support services in more than 100 countries, our focus is on  
improving health outcomes in developing nations.

**Erba Lachema s.r.o.**

Karásek 2219/1d, 621 00 Brno,  
Czech Republic

✉ [sales@erbamannheim.com](mailto:sales@erbamannheim.com)

[www.erbamannheim.com](http://www.erbamannheim.com)



The Devices are in compliance with the IVDR requirements of CE marking  
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