



MEET THE XL-180

Fully automated clinical chemistry analyser



Making Automation Affordable
for Labs Everywhere

www.erbamannheim.com

Fully automatic clinical chemistry analyser

XL-180 a trusted solution for small to medium size labs.

XL-180 is the comprehensive solution for your clinical diagnostic needs. It is designed to offer you the convenience and flexibility in operation and good quality reports. Its rugged architecture, precise optical system and distinct features, make the XL-180 a trusted solution for small to medium size labs.

XL-180 comes with a simple, easy to operate yet efficient software. The instrument is piloted by a powerful software which guides the system through all the steps of the assay procedure, optimizes faster processing of samples & graphically represents the data.



INNOVATIVE

- System provides flexibility to program infinite protocol
- Requires only 180 µl reagent volume with sapphire syringe
- Throughput of 180 photometric tests/hour & 360 tests/hour with ISE (optional)

PRECISE

- Onboard cooling for reagents
- Primary tube sampling with option of sample cup
- Static photometer with 8 multi-Wavelengths ranging from 340 to 700 nm



Key features of XL-180

ADAPTIVE

- Dedicated mixer with variable speed: Low, Medium and High
- Inbuilt Barcode reader for samples and reagents
- Single Use or Re-usable cuvettes (external washing)
- Probe with pre-heating facility, vertical obstruction detection and liquid level sensing
- Auto dilution and auto rerun facility

EFFECTIVE

- Multiple assay modes: 1-Point, 2-Point, Rate-A, Rate-B, Direct Potentiometry (optional)
- Multiple calculation modes such as linear, non-linear, multipoint
- Extensive Q.C Program Levy-Jenning curve and QC rules
- Wide test menu: routine chemistry, special chemistry, Immunturbidimetric tests and ISE (optional)

RELIABLE

- Windows operating mode with intuitive user interface
- Lamp saving function enhances lamp life
- Real time monitoring of reaction curve
- Flexibility for STAT samples
- Direct patient reportable format and printout with user defined option
- Unlimited data storage



Technical Specifications

System Type	Throughput
Discrete, automated, random access, patient prioritized, 1 or 2 Reagent, Bench top system	180 Photometric tests/hour & 360 tests/hour with ISE (optional)
Programmable Parameters	Assay Modes
Unlimited test parameters Unlimited calculated tests Unlimited Profiles	1-Point, 2-Point, Rate-A, Rate-B, Direct Potentiometry
Sample Volume	Reaction Volume
2-70 μ l (adjustable in 0.1 μ l step)	180 μ l
Onboard Tests	Sample Container
Up to 42 photometric tests + 4 ISE (optional; Na, K, Cl, Li) 25 positions fixed for Reagents 15 flexible (Reagent/Sample) 2 Rgt/Dil positions at Room Temperature	Primary tube 7 ml (14.5 x 84 mm) or 5 ml (13 x 75 mm) Cup: Standard cup 2 ml Adaptors will be provided for all types
Stat Samples	Wavelengths
To be placed in any of the 25 positions on the outer rim	8 wavelengths (340, 405, 505, 546, 578, 600, 660 & 700 nm)

Photometric System	Reagent Dispensing
Multi-wavelength static photometer	10-300 μ l (adjustable in 1 μ l step)
Mixers	Safety Mechanism
Separate dedicated mixer -3 Levels Slow/Medium/High	Vertical obstruction detection Capacitance based liquid level sensing
QC Menu	Water Consumption
Unlimited number of controls	Approx 1.8 liters/hour
Sample Handling	Reaction Unit
Sample/Reagent Tray Max no of samples: 25 Fixed sample positions: 10 Flexible S/R positions: 15	Reaction tray: Semi Disposable PMMA Rotor Number of reaction cuvettes: 120 with 5 mm path length
Power Supply	Dimensions
AC 220 V.+ 10%, 50/60 Hz or AC 110 V + 10% 50/60 Hz (600 VA including PC & Printer)	675 mm (w) x 450 mm (d) x 300 mm (Working h)
Weight	
65 kg	

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	500
XSYS0003	AMY 110	Alpha Amylase	CNPG3	5 x 22		500
XSYS0017	ALT/GPT 330	ALT/GPT	Modified IFCC	6 x 44	6 x 11	1500
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	200
XSYS0046	ASO	Antistreptolysin (O)	Immunoturbidimetry	2 x 40	2 x 10	400
XSYS0016	AST/GOT 330	AST/GOT	Modified IFCC	6 x 44	6 x 11	1500
XSYS0028	BIL D 330	Bilirubin Direct	Walter & Gerard	6 x 44	6 x 11	1200
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	1250
XSYS0085	CREA ENZ 200	Creatinine Enzymatic	Enzymatic	5 x 30	5 x 10	750
XSYS0022	CK 110	Creatinine Kinase	IFCC & DGKCH	2 x 44	2 x 11	500
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	500
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	1200
XSYS0096	HbA1c	HbA1c - 2R	Latex Immunoturbidimetry	2 x 21	2 x 7	200
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	440
XSYS0101	FRTN	Ferritin	Latex Immunoturbidimetry	2 x 15	2 x 7,7	200
XSYS0013	LDH 110	Lactate Dehydrogenase - P	DGKCH	2 x 44	2 x 11	500
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	500
XSYS0040	MG 88	Magnesium	Xylidyl Blue	2 x 44		400
XSYS0083	MAL	Microalbumin	Immunoturbidimetry	2 x 30	2 x 6,3	300
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		2000
XSYS0041	TG 440	Triglycerides	GPO	10 x 44		2000
XSYS0050	UIBC 125	UIBC	Ferrozine	4 x 25	4 x 6,5 Std 1x4	440
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	1000
XSYS0042	UA 440	Uric Acid	Uricase	10 x 44		2000

We are an emerging player in in-vitro diagnostics, with a global footprint.
Our mission is to make automation affordable for labs everywhere.

Providing hospitals and labs with a full range of diagnostic instruments,
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

www.erbamannheim.com



The Devices are in compliance with the IVDR requirements of CE marking
Ref: 30.003/2023/1/EN