



# MEET THE XL-180

Fully automated clinical chemistry analyzer



Making Automation Affordable  
for Labs Everywhere

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# Fully automatic clinical chemistry analyzer

## 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, Immunospectrophotometric 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<br>& 400/500 tests/hour with ISE (optional)                                                        |
| Programmable Parameters                                                                                                                                                       | Assay Modes                                                                                                                   |
| Unlimited test parameters<br>Unlimited calculated tests<br>Unlimited Profiles                                                                                                 | 1-Point, 2-Point, Rate-A,<br>Rate-B, Direct Potentiometry                                                                     |
| Sample Volume                                                                                                                                                                 | Reaction Volume                                                                                                               |
| 2–70 µl (adjustable in 0.1 µl step)                                                                                                                                           | 180 µl                                                                                                                        |
| Onboard Tests                                                                                                                                                                 | Sample Container                                                                                                              |
| Up to 42 photometric tests<br>+ 4 ISE (optional; Na, K, Cl, Li)<br>25 positions fixed for Reagents<br>15 flexible (Reagent/Sample)<br>2 Rgt/Dil positions at Room Temperature | Primary tube 7 ml (14.5 × 84 mm)<br>or 5 ml (13 × 75 mm)<br>Cup: Standard cup 2 ml<br>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 µl (adjustable in 1 µl step)                                                                       |
| Mixers                                                                                                   | Safety Mechanism                                                                                          |
| Separate dedicated mixer<br>-3 Levels Slow/Medium/High                                                   | Vertical obstruction detection<br>Capacitance based liquid level sensing                                  |
| QC Menu                                                                                                  | Water Consumption                                                                                         |
| Unlimited number of controls                                                                             | < 3 liters/hour                                                                                           |
| Sample Handling                                                                                          | Reaction Unit                                                                                             |
| Sample/Reagent Tray<br>Max no of samples: 25<br>Fixed sample positions: 10<br>Flexible S/R positions: 15 | Reaction tray:<br>Semi Disposable PMMA Rotor<br>Number of reaction cuvettes:<br>120 with 5 mm path length |
| Power Supply                                                                                             | Dimensions                                                                                                |
| AC 220 V + 10 %, 50/60 Hz<br>or AC 110 V + 10 % 50/60 Hz<br>(600 VA including PC & Printer)              | 675 mm (w)<br>× 450 mm (d)<br>× 300 mm (Working h)                                                        |
| Weight                                                                                                   |                                                                                                           |
| 65 kg                                                                                                    |                                                                                                           |

# Dedicated Reagents on XL Instruments

| Dedicated Reagents on XL Instruments |               |                            |                          | Pack Size        |                 |          |
|--------------------------------------|---------------|----------------------------|--------------------------|------------------|-----------------|----------|
|                                      |               |                            |                          | R1               | R2              | Test/Kit |
|                                      |               |                            |                          | Vials × Vol (mL) |                 | XL180    |
| Cat No.                              | Pack Name     | Product Name               | Method                   |                  |                 |          |
| XSYS0001                             | ALB 440       | Albumin                    | BCG                      | 10 × 44          |                 | 2000     |
| XSYS0002                             | ALP 110       | Alkaline Phosphatase       | IFCC, AMP                | 2 × 44           | 2 × 11          | 500      |
| XSYS0003                             | AMY 110       | Alpha Amylase              | CNPG3                    | 5 × 22           |                 | 500      |
| XSYS0017                             | ALT/GPT 330   | ALT/GPT                    | Modified IFCC            | 6 × 44           | 6 × 11          | 1500     |
| XSYS0102                             | Apo A         | Apolipoprotein A           | Latex Immunoturbidimetry | 2 × 28           | 2 × 7           | 200      |
| XSYS0103                             | Apo B         | Apolipoprotein B           | Latex Immunoturbidimetry | 2 × 21           | 2 × 6           | 200      |
| XSYS0046                             | ASO           | Antistryptolysin (O)       | Immunoturbidimetry       | 2 × 40           | 2 × 10          | 400      |
| XSYS0016                             | AST/GOT 330   | AST/GOT                    | Modified IFCC            | 6 × 44           | 6 × 11          | 1500     |
| XSYS0028                             | BIL D 330     | Bilirubin Direct           | Walter & Gerard          | 6 × 44           | 6 × 11          | 1200     |
| XSYS0086                             | BIL D DCA 330 | Bilirubin Direct DCA       | With DCA                 | 6 × 44           | 6 × 11          | 1500     |
| XSYS0023                             | BIL T 330     | Bilirubin Total            | Walter & Gerard          | 6 × 44           | 6 × 11          | 1500     |
| XSYS0087                             | BIL T DCA 330 | Bilirubin Total DCA        | With DCA                 | 6 × 44           | 6 × 11          | 1500     |
| XSYS0007                             | CA 120        | Calcium                    | Arsenazo                 | 10 × 12          |                 | 500      |
| XSYS0008                             | CL 120        | Chloride                   | Mercuric Thiocyanate     | 10 × 12          |                 | 500      |
| XSYS0009                             | CHOL 440      | Cholesterol                | CHOD POD                 | 10 × 44          |                 | 2000     |
| XSYS0100                             | CO2           | Bicarbonate (with CAL)     | Enzymatic                | 4 × 34           | Std 1×5         | 600      |
| XSYS0047                             | CRP           | C-Reactive Protein         | Immunoturbidimetry       | 2 × 40           | 2 × 10          | 400      |
| XSYS0084                             | CRP-HS        | C-Reactive Protein HS      | Immunoturbidimetry       | 2 × 40           | 2 × 8           | 300      |
| XSYS0024                             | CREA 275      | Creatinine                 | Jaffe                    | 5 × 44           | 5 × 11          | 1250     |
| XSYS0085                             | CREA ENZ 200  | Creatinine Enzymatic       | Enzymatic                | 5 × 30           | 5 × 10          | 750      |
| XSYS0022                             | CK 110        | Creatinine Kinase          | IFCC & DGKCH             | 2 × 44           | 2 × 11          | 500      |
| XSYS0029                             | CK MB 110     | Creatinine Kinase MB       | Immunoinhibition         | 2 × 44           | 2 × 11          | 500      |
| XSYS0011                             | GGT 110       | Gamma-Glutamyl Transferase | SZASZ                    | 2 × 44           | 2 × 11          | 500      |
| XSYS0012                             | GLU 440       | Glucose                    | GOD POD                  | 10 × 44          |                 | 2000     |
| XSYS0095                             | GLU HK 330    | Glucose HK                 | Hexokinase               | 6 × 44           | 6 × 11 Std 1×4  | 1200     |
| XSYS0096                             | HbA1c         | HbA1c - 2R                 | Latex Immunoturbidimetry | 2 × 21           | 2 × 7           | 200      |
| XSYS0043                             | HDL C 160     | HDL Direct                 | Direct Method PVS & PEG  | 4 × 30           | 4 × 10          | 600      |
| XSYS0049                             | FE 125        | Iron                       | Ferrozine                | 4 × 25           | 4 × 6,5         | 440      |
| XSYS0101                             | FRTN          | Ferritin                   | Latex Immunoturbidimetry | 2 × 15           | 2 × 7,7         | 200      |
| XSYS0013                             | LDH 110       | Lactate Dehydrogenase - P  | DGKCH                    | 2 × 44           | 2 × 11          | 500      |
| XSYS0044                             | LDL C 80      | LDL Direct                 | Direct Method PVS & PEG  | 2 × 30           | 2 × 10          | 300      |
| XSYS0081                             | LIP 110       | Lipase                     | Enzymatic, colorimetric  | 2 × 44           | 2 × 11          | 500      |
| XSYS0040                             | MG 88         | Magnesium                  | Xylidyl Blue             | 2 × 44           |                 | 400      |
| XSYS0083                             | MAL           | Microalbumin               | Immunoturbidimetry       | 2 × 30           | 2 × 6,3         | 300      |
| XSYS0027                             | MP 120        | Microprotein               | Pyrogallol Red           | 10 × 12          | Std 1×5         | 500      |
| XSYS0015                             | PHOS 120      | Phosphorus                 | UV Phosphomolybdate      | 10 × 12          |                 | 500      |
| XSYS0048                             | RF            | Rheumatoid Factor          | Immunoturbidimetry       | 2 × 40           | 2 × 8           | 400      |
| XSYS0018                             | TP 440        | Total Protein              | Biuret                   | 10 × 44          |                 | 2000     |
| XSYS0041                             | TG 440        | Triglycerides              | GPO                      | 10 × 44          |                 | 2000     |
| XSYS0050                             | UIBC 125      | UIBC                       | Ferrozine                | 4 × 25           | 4 × 6,5 Std 1×4 | 440      |
| XSYS0020                             | UREA 275      | Urea                       | Urease GLDH              | 5 × 44           | 5 × 11          | 1250     |
| XSYS0021                             | UA 275        | Uric Acid                  | Uricase                  | 5 × 44           | 5 × 11          | 1000     |
| XSYS0042                             | UA 440        | Uric Acid                  | Uricase                  | 10 × 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.

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