

Automated Chemistry Analyser
BX-4000

Performance
You Can Trust.



High Performance Compact Solution for your Chemistry Testing

The BX-4000 is an automated chemistry analyser designed specially for mid-volume laboratories which demand high productivity and require a compact size.

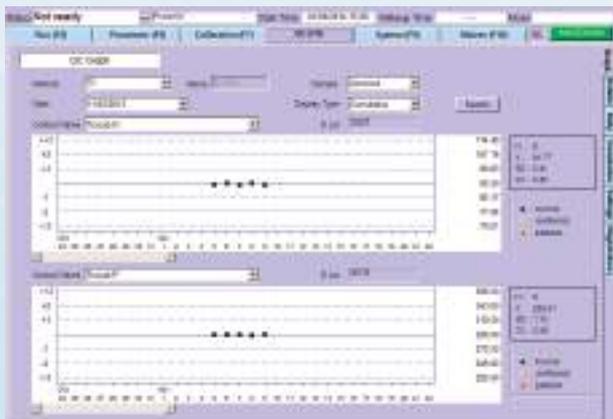
Offering a throughput of up to 560 tests per hour, it is one of the fastest analysers in its class. The advanced technology it employs allows the BX-4000 to deliver accurate results with high efficiency and user friendly operation with low running cost.

Accurate Results

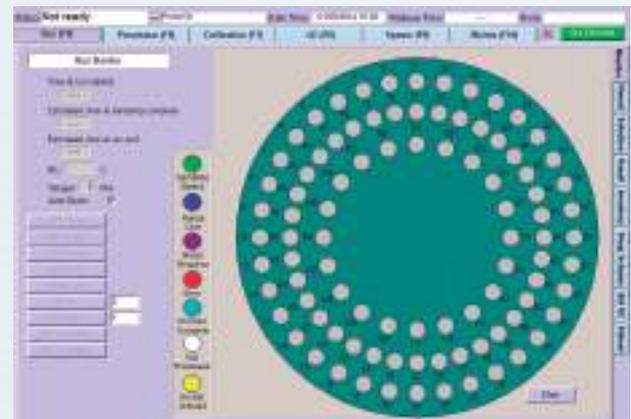
- Clot detection system and serum indices testing assure sample integrity.
- Sample barcode reader ensures positive sample identification.
- Cooled reagent compartment (8°C to 15 °C) maintains quality of reagent.
- Comprehensive QC program helps laboratory to monitor analyser performance.

User Friendly Operation

- Smart menu-based software makes the sophisticated functions of the analyser easy to understand.
- Real-time results status detailing the time to completion of test helps in time management.



QC Screen



Monitoring screen

Increased Efficiency

- Automated start-up and before sleep operation maximises technologists on-site working hours.
- Automated on-board sample dilution, re-run & reflex testing functions realise walk away operation.
- Reagent barcode reader allows random loading of reagents.
- STAT Lid ensures urgent samples can be loaded and analysed right away.

Low Running Cost

- Dry incubation bath minimises maintenance
- Hard glass cuvette reduces replacement cost
- Low detergent consumption needed for cleaning

Features of BX-4000

1



Incubation Reaction Unit

90 cuvettes - semi-permanent glass type, incubate in a dry bath for test reaction to take place.

2

Reagent Pipette Unit

Liquid level sensor detects reagent level to provide the number of tests available on board.



3



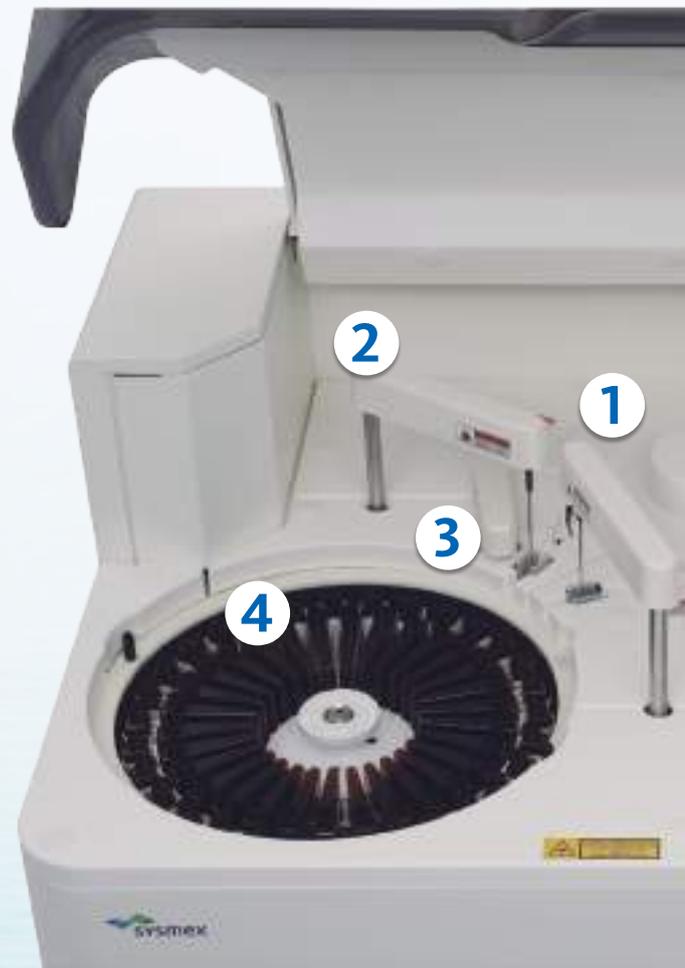
Stirrer Unit

2 metallic stirrers with 5 mixing speeds allow proper mixing of sample & reagent within the cuvette.

4

Reagent Compartment

Detachable reagent tray holds maximum 60 bottles, maintained at a constant temperature between 8-15 °C. Equipped with reagent barcode reader.





5

Wash Unit

8-step washing mechanism for optimal cleaning of cuvettes.



6

Sample Pipette Unit

Liquid level and clot sensors reliably detect sample level and clots.



7

Sample Tray

Detachable sample tray holds maximum 72 sample tubes and 20 sample cups. Equipped with barcode reader for easy & correct input of sample ID.



STAT Lid

STAT lid provides access to any position in the outer tray for emergency testing.

8

ISE Unit (optional)

Direct measurement of Na⁺, K⁺ and Cl⁻.

Only requires 83µL of sample.



Broad Portfolio of Chemistry Reagents

In collaboration with DiaSys, Sysmex offers a comprehensive range of high quality chemistry reagents for the BX-4000. Tests available include cardiac profile, lipid profile, renal profile, diabetes profile and liver profile.

DiaSys Diagnostic Systems has been a leading specialist in the development and manufacturing of diagnostic system solutions for over 20 years.

Benefits of DiaSys Reagents:

- Stable, ready-to-use liquid reagents
- Long on-board stability and calibration stability
- Minimised interferences with lipid clearing system
- Standardised to international reference material/methods
- Barcoded reagents with multi-calibrator and control for easy handling



Specifications

Throughput (test/hr)		560
		400 (w/o ISE)
Parameters (simultaneous analysis)		60 + 3 (with ISE)
Reagent	Position	60
	Volume	20 µL – 350 µL
	Barcode Reader	Yes
Sample	Position	92 (72 tube-holders, 20 cup-holders)
	Volume	2 µL – 35 µL (photometric assay) 83 µL (ISE)
	Level Detection	Yes
	Clot Detection	Yes
	Barcode Reader	Yes
Reaction	Incubation Bath	Dry bath
	No. of Cuvette	90
	Cuvette Type	Hard glass/Pyrex
	Reaction Volume (total)	150 µL – 450 µL
	Mixing	metallic stirrer with 5-speed levels
	Photometric Range	0 – 2.5 Absorbance
	Wavelength	12 wavelengths (340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750, 800nm)
System	PC Operating System	Windows 10
	Host Interface	RS232C
	Results Storage	1,000,000 tests
	Water Consumption	18 Litres/hour
	Dimension (WxDxH)mm	970 X 690 X 582
	Weight (kg)	150

Design and specifications may be subject to change due to further product development.

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