

LED TECHNOLOGY

The Highest Flexibility

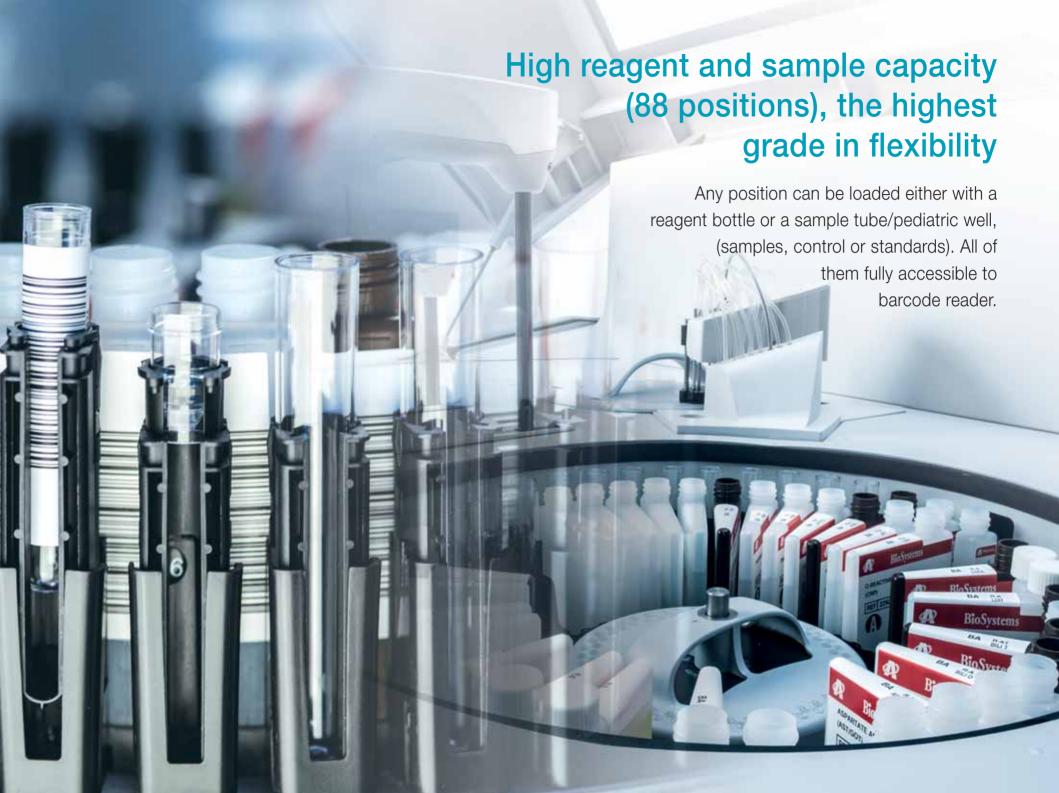






# STAT and Routine laboratories benchtop random Clinical Chemistry analyzer

For 35 years **Biosystems**, **S.A.** develops IVD products at its facilities in Barcelona (Spain). The quality of our product, together with a personalized Customer's Support have been and remain our main business philosophy. Through this experience we can now present our first benchtop analysis system with the most advanced technological features in electronics, design and reliability. With this analyzer, one more member is added to the BA family, which together with the BA400 offers a wide spectrum of attention to the clinical laboratory with a good quality / price ratio.





## Barcoded dedicated reagents

The BA has several kit sizes suitable for high and low turnover.

Note: A brochure for the BA dedicated reagents is available to ask for.

## Highly accurate dispensing

No extra consumption neither in calibrators, controls or reagents.



### 120 - cuvettes rotor with washing station

All 120 cuvettes are easily changed in only one step while all of them are optically checked.

#### Compact system with low maintenance

No additional elements required to be connected out of the analyzer.

Long durability pump and LED light sources maintenance - free.





#### Technical specifications

**General Performance** 

Throughput 200 test/h (without electrolytes) Throughput ISE module 120 test/h (3 channels)

160 test/h (4 channels)

Principles of analysis Colorimetry, turbidimetry, ISE method:Na+.K+.Cl-

(Li+ as optional)

Sample and reagent handling

Capacity of rotor 88 (44 bottles of 20 mL, 60 mL or sample tube

+ 44 bottles of 20 mL or sample tubes)

Barcode Detector Yes

Sample tube size Diameter from 12 mm to 16 mm (height up to 100 mm)

Pediatric well 13.5 mm diameter

Type of syringe Ceramic piston pump with low maintenance

Yes

Pipetting volume from 2 µL to 40 µL

Pipettina resolution 0.1 uL

Predilution ratio From 1:1 to 1:200

Level detection Yes

Tip wash Inside and outside

Clot detector Yes Vertical collision detector Yes

Volume of reagent bottles 20 mL, 60 mL

Cooled reagent

From 6° C to 11° C (measured at 21° C) Temperature range of refrigerator

Reagent volume R1 From 90 µL to 300 µL Reagent volume R2 From 10 µL to 100 µL

**Reactions rotor** 

Minimum reaction volume 180 µL Maximum reaction volume 440 µL Number of wells 120

Well material UV methacrylate Type of incubation 5 min (fixed) Temperature reaction rotor 37 ° C Accuracy of temperature ± 0.2 ° C Temperature stability ± 0.1 ° C Mixers 1

**Cuvette washing system** 

Number of tips of washing system 7 2 Number of tips with washing solution Rinsed with water 3 2 Dried tips Wash volume per tip 711 µL

Consumption of washing solution 1.42 mL/cycle (=7,11 μl cws\*)

\* Concentrated washing selection AC16434

**Optical System** 

Light Source LED + Hard Coating filter

Number of wavelengths

Wavelengths 340 - 405 - 505 - 535 - 560 - 600 - 635 - 670 nm

Filters bandwidth + 2 nm Photometric range -0.2 to 3.5 A Internal resolution 0.0001

Detector Main Photodiode + reference photodiode

Measurement accuracy CV < 1% at 0.1 A (for 340 nm. 405 nm and 505 nm) CV < 0.1% at 2 A

**ISE Module (optional)** 

Sample type Serum, Plasma or Urine Electrode type Na +, K +, Cl-, Li + (optional) Sample volume Serum: 100 µL / Urine: 200 µL

**Environmental Requirements** 

Ambient temperature 10 ° C to 35 ° C

10 ° C to 30 ° C (With ISE module) Relative humidity <85% without condensation

**Dimensions and weight** 

Dimensions (width, depth and height) 1077 mm x 690 mm x 680 mm 166 Kg

Weight

**Electrical Requirements** 

Mains voltage 115 V to 230 V Mains frequency 50 Hz or 60 Hz Electric power Max. 500 VA Average power: 260 VA

Fluidic Requirements

Water inlet External tank or mains water supply Type of water Purified type II (NCCLS)

Water consumption <9 L/h High concentration waste tank 2.4 L Washing solution tank 2.41

#### STAT and Routine laboratories benchtop random Clinical Chemistry analyzer

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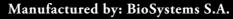
When time matters, Real 200 t/h throughput







 Certified Manageme System
 EN ISO 9001



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