

LED TECHNOLOGY

The Highest Flexibility

BioSystems
REAGENTS & INSTRUMENTS

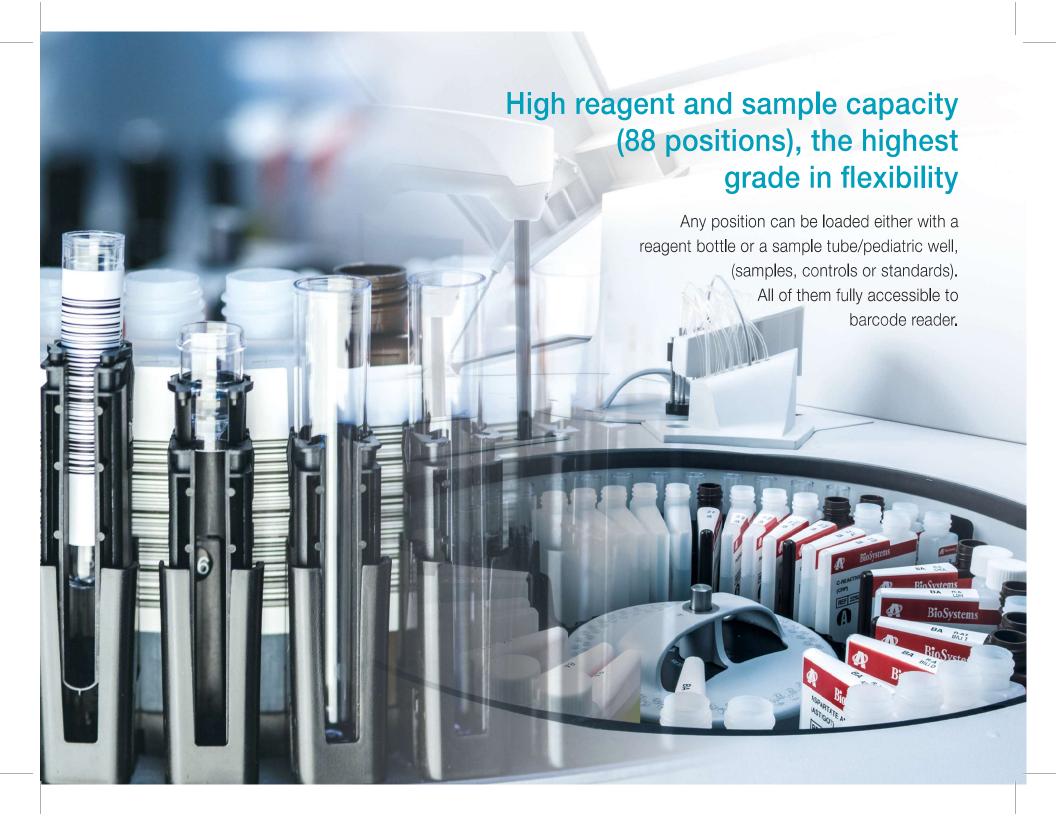
We improve the well-being of people around the world





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 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 an excellent 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.

Highly accurate dispensing

No extra consumption neither in calibrators, controls nor reagents.



120 - cuvette rotor with washing station

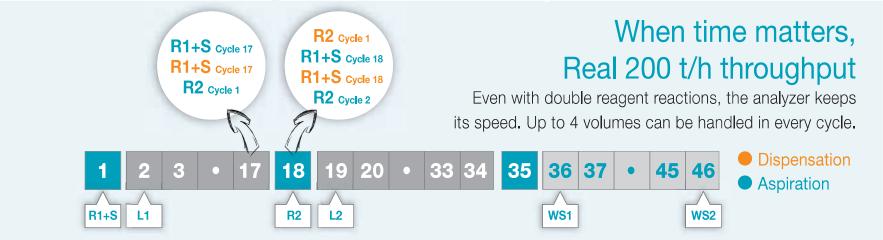
All 120 cuvettes are easily changed in only one step while all of them are optically checked.

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.





BA200 machine cycle sequence:R1 and sample are both dispensed in cycle 1, not requiring additional time for R1 pre thermo

Technical specifications

General Performance

Throughput Throughput ISE module

Principles of analysis

Sample and reagent handling

Capacity of rotor

Barcode Detector Sample tube size Pediatric well Type of syringe Pipetting volume Pipetting resolution Predilution ratio Level detection Tip wash Clot detector

Vertical collision detector Volume of reagent bottles

Cooled reagent

Temperature range of refrigerator

Reagent volume R1 Reagent volume R2

Reactions rotor

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

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

Consumption of washing solution

200 test/h (without electrolytes)

120 test/h (3 channels) 160 test/h (4 channels)

Colorimetry, turbidimetry, ISE method:Na+,K+,Cl-

(Li+ as optional)

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

+ 44 bottles of 20 mL or sample tubes)

Diameter from 12 mm to 16 mm (height up to 100 mm)

13.5 mm diameter

Ceramic piston pump with low maintenance

from 2 µL to 40 µL

 $0.1 \,\mu L$

From 1:1 to 1:200

Inside and outside

Yes Yes

20 mL, 60 mL

From 6° C to 11° C (measured at 21° C)

From 90 µL to 300 µL From 10 µL to 100 µL

Minimum reaction volume

180 µL

Cuvette washing system

1.42 mL/cycle (=7.11 µL cws*)

* Concentrated washing selection AC16434

Optical System

Detector

Light Source Number of wavelengths Wavelengths Filters bandwidth Photometric range Internal resolution

Measurement accuracy (for 340 nm, 405 nm and 505 nm)

ISE Module (optional)

Sample type Electrode type Sample volume

Environmental Requirements

Ambient temperature

Relative humidity

Dimensions and weight

Dimensions (width, depth and height) Weight

Electrical Requirements

Mains voltage Mains frequency Electric power

Fluidic Requirements

Water inlet Type of water Water consumption High concentration waste tank Washing solution tank

LED + Hard Coating filter

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

± 2 nm -0.2 to 3.5 A

0.0001

Main Photodiode + reference photodiode

CV < 1% at 0.1 A CV < 0.1% at 2 A

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

10 ° C to 35 ° C

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

1077 mm x 690 mm x 680 mm

166 Ka

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

External tank or mains water supply Purified type II (NCCLS)

<9 L/h 2.4 L 2.4 L



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Compact system with low maintenance

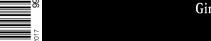
When time matters, Real 200 t/h throughput







 Certified Management System
 EN ISO 9001



Manufactured by: BioSystems S.A.

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