



The Highest Flexibility





Dynamic

Static



A new more precise measurement algorithm for cuvette blanking allows better trueness in samples of low concentration / catalytic activity along with an improvement in precision.



STAT and Routine Laboratories Benchtop Random Clinical Chemistry Analyzer

For 40 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. The BA200 joins the BA family, which together with the BA400 offers a wide spectrum of attention to the clinical laboratory with an excellent quality / price ratio.

295 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 n° of runs

320

315

310

305

300

High reagent and sample capacity (88 positions), the highest grade in flexibility

Any position can be loaded either with a reagent bottle or a sample tube/pediatric well, (samples, controls or standards). All of them fully accessible to barcode reader.

Systems

BioSyst

BioSystems



Barcoded dedicated reagents

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

Ask your local dealer for additional information.

Highly accurate dosing

Making the most of reagents with a precise control in consumption of calibrators, controls and reagents.



120 - cuvette rotor with washing station

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

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. Individual collection of High Contamination Waste. Up to 7h of continuous workload.



The Instrument takes only between 6 and 24 seconds as a pause time to ease loading and unloading of samples and reagents (from Sw v 5.3.1).



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

BA200

MIGR

Technical specifications

General Performance

Throughput Combined throughput (ISE+Photometry)

Principles of analysis

Sample and reagent handling

Capacity of rotor

Barcode detector Sample tube size Pediatric well Type of syringe Pipetting volume Pipetting resolution Dilution (Pre/Post) ratio Level detection Tip wash Clot detector Vertical collision detector Volume of reagent bottles Coolina unit Temperature range of refrigerator Reagent volume R1 Reagent volume R2 Curve autocal from a single standard

Reactions rotor

Minimum reaction volume Maximum reaction volume Number of wells Well material Type of incubation Temperature reaction rotor Accuracy of temperature Temperature stability Mixers

Cuvette washing system

Washing station type Consumption of washing solution 200 test/h (without electrolytes) 267 test/h (3 channels) 300 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) Yes 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 µL From 1:1 to 1:200 Yes Inside and outside Yes Yes 20 mL, 60 mL Yes (Samples & Reagents) From 6 °C to 11 °C (measured at 21 °C) From 90 µL to 300 µL From 10 µL to 100 µL Yes

180 µL 440 µL 120 UV methacrylate 5 min (fixed) 37 °C ± 0.2 °C ± 0.1 °C 1

7 step with drying 1.42 mL/cycle (=7.11 µL cws*) * Concentrated washing solution AC16434

Optical System

Light source Number of wavelengths Wavelengths

Filters bandwidth Photometric range Internal resolution Detector 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 8 340 nm - 405 nm - 505 nm - 535 nm - 560 nm -600 nm - 635 nm - 670 nm \pm 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, Urine, Whole Blood, CSF and other biological fluids Na⁺,K⁺,Cl⁻ (Li⁺ as optional) Serum: 100 μ L / Urine: 200 μ L

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 Kg

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 (CLSI) <9 L/h 2.4 L 2.4 L

BioSystems, S.A. reserves the right to change specifications of the instruments at any time due to technical improvements.

STAT and Routine Laboratories Benchtop Random Clinical Chemistry Analyzer

Dynamic Baseline with LED Light Source Technology

High reagent and sample capacity (88 positions), the highest grade in flexibility

Barcoded dedicated reagents

Highly accurate dispensing

120 - cuvette rotor with washing station

Compact system with low maintenance

Real 200 t/h, even with bi reagent reactions

Quick Pause





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