



# Technical Specifications

Random access automatic analyzer aimed at giving results per patient. Photometric reading directly in the reaction rotor.



Throughput	150 test/hour
Methodology	End-point, fixed-time, kinetics, differential, mono and bichromatic, linear/non-linear multipoint calibration
Positions per racks	2 (Regents or samples)
Number of samples per rack	24 (Racks multipurpose)
Number of reagents per reagent rack	10 (bottles of 20 or 50 mL)
Sample types	Primary tubs and samples cups
Maximum capacity of samples/reagents	48 samples and 30 reagents (20 refrigerated)
Cooling system temperature	10°C below room temperature
Dispensing needle	Stainless steel with level detection and collision sensor
Dispensation temperature	37 ± 0,5°C
Level detection	Capacitive
Water consumption	<0,5 l/h
Dosing pump	Ceramic piston of high durability
Reagent volume	10 µL - 600 µL
Sample volume	2 µL - 80 µL
Reaction volume range	180 µL - 800 µL
Reaction wells	Rotor with 120 disposable wells
Lightpath	6 mm
Light source	Halogen lamp 6V, 10W
Measurement range	From -0.05 A to 3.0 A
Digital resolution	< 0.0001 A
Spectral range	340 nm - 900 nm
Filter configuration*	340, 405, 505, 535, 560, 600, 635, 670 nm (one additional filter can be added by user)
Physical dimensions	840 x 670 x 615 mm (width x depth x height)
Weight	45 kg ( 100 lb.)

\*A15 filter configuration can be customized using different interchangeable filters. Optional filters available for A15 are: 360, 420, 480, 520, 570, 580, 620, 700, 750, 810 and 880 nm.

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

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**BioSystems**  
REAGENTS & INSTRUMENTS



## A reliable and efficient system for your lab

**A15** is a compact and easy-to-use automatic biochemistry analyzer, designed especially for small labs as their main analyzer or as a dedicated/back-up analyzer for medium sized labs, offering the best performance and maximum efficiency.

- Fully open system with customized filter configuration and unlimited external applications, according to user needs.
- Throughput of 150 test/hour.
- Improved reagent stability due to the new cooling system.
- Maximum flexibility in samples and reagents loading (primary tubes and sample cups) and reagent configuration.
- Continuous loading of samples during working session (STAT samples) without stopping the analyzer.
- Real prozone (antigen excess) and substrate depletion detection.
- Automatic sample pre- and post- dilution.



## New cooling system

The new cooling system, designed by BioSystems, improves the stability of reagents on board, allows the positioning of up to 20 reagents, both 20 and 50 mL bottles.

The new cooling system is able to cool reagents up to 10-15°C below room temperature.

The new cooling system is fitted with a temperature and cover sensor.

A wide range of top quality dedicated reagents, manufactured by Biosystems, can be used to achieve the highest performance in all **A15** systems.

