



OCD / **O**400 Smart efficiency with unlimited flexibility



After almost 40 years, BioSystems - a group of 15 companies - is a reliable partner for laboratories over the 5 continents in the fields of **In-vitro Human and Veterinary Clinical Diagnostic**, **Food & Beverage Analysis** and **Monitoring of Bioprocesses.**

Today, the scientific advances in Biotech and Digital technologies drive Bio-Systems to focus on better understanding your needs and expectations and so provide **Analytical Solutions** to deliver the best **User Experience**.

BioSystems worldwide team of **Scientists, Engineers** and **Expert Professionals** devote their best efforts to continuously design and develop new solutions and improve existing ones.

I'm convinced that **working together**, we will **design** the best solutions to your future needs.

I invite you to explore BioSystems Product List





Pau Vila Cases Ph. D. Director General BioSystems S.A.



Y200 / Y400 Smart efficiency with unlimited flexibility

Y200 / Y400 are the new platforms presented by BioSystems S.A in the wine market. These platforms incorporate the latest developments done by the different BioSystems Departments. Below we will present the most advanced and significant developments done in Optics, Fluid Mechanics, Mechanics, Electronics and Software departments.

We are convinced that these new analysers will suppose a significant upgrade in the quality of the results and they will bring a new user experience, closer, agile and optimized.

Optics

LED optical system, reduces maintenance cost, eliminates the temperature factor that usually affects the halogen lamps and by 2 photodiode working simultaneously (reading + reference) it corrects any variation of the light caused due to differences in the electrical supply. The new dynamic baseline allows the individual correction of the plastic colour in each cuvette.



The new set of needles, ceramic pumps and stirrers improves significantly the repeatability and reproducibility of the data.

The new automatic pre and post dilutions are done in the reactions rotor and mixed by the stirrers, with this new performance the quality of the dilutions are much better and the positions in the sample carrousel are optimized since are not request any empty tubes or cups for that.



Friendly software with an **intuitive interface**, it allows a real-time monitoring of kinetics, the work session, a more in-depth quality control analysis (rules of Westgard, Youden and evey-Jennings diagrams) and modern management of the LIS communications and historical results.



Fluid Mechanics

Automatic washing station: apart from the obvious reduction of the cost in consumables, establishes an individual control per cuvette and a correction of individual for each one of them significantly improving repeatability. The **double waste circuit** (high and low concentration) allows a better management of the reagents. With this development, the clear interest of BioSystems in the preservation of the Environment is reflected in the products.

Electronics

New sensors have been incorporated to have a better control of the operation of the analyser, and in case of alarm it has a better diagnosis of the problem. A pressure control inside the arms allows to detect clot needles, a sensors in a shock absorbers inside the needle allows to detect impacts and an optical control in the washing station validate the quality of the cuvettes before being used again.





Y200

- 200 results per hour
- 1 arm and 1 stirrer
- 88 positions between reagents and samples
- cycles of 18 seconds
- · Consumption of 9 litters/hour of distilled water

Higher performance, 200 real results per hour





Y400

- 400 results per hour
- · 3 arms and 2 stirrers
- 135 sample and 88 reagents potions
- · Cycles of 9 seconds
- · Consumption of 13 litters/hour of distilled water

High capacity for samples and reagents. High application flexibility



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Technical Specifications | Code 83020

Speed

200 tests/hour (200 results/hour)

Capacity

88 positions: · 44 positions of 60 mL or samples (tube or pediatric well) · 44 positions of 20 mL or samples (tube or pediatric well)

Fluid System

RA volume from 90 µL to 300 µL RB volume from 10 μ L to 100 μ L Sample volume from 2 µL to 40 µL Reaction volume from 180 µL to 440 µL Level and clot detector

Optical System

LED + Hard Coating Filter Main photodiode + reference photodiode Wavelenghts 340, 405, 420, 430, 505, 520, 560, 600, 620 635, 750 (nm)

Other Characteristics

Dimensions 1077 x 690 x 680 (mm) 166 Kg

400



FOODQUALITY BY BIOSYSTEMS

Technical Specifications | Code 83040

Speed

400 tests/hour (400 results/hour)

Capacity 135 sample positions

(90 with automatic barcode reading)

88 reagent bottles (refrigerated) Removable blade with 120 reaction cuvettes (autowashable)

Fluid System

RA volume from 90 µL to 450 µL RA volume from 10 µL to 300 µL Sample volume from 2 µL to 40 µL Reaction volume from 180 μ L to 600 μ L Level and clot detector

Optical System

LED + Hard Coating Filter Main photodiode + reference photodiode Wavelenghts 340, 405, 420, 430, 505, 520, 560, 600, 620 635, 750 (nm)

Other Characteristics Dimensions 1200 x 720 x 1258 (mm) 210 Kg



• Minimum handling

• Fast and convenient

Reagent cost savings







 Certified Management System
 EN ISO 9001
 EN ISO 13485