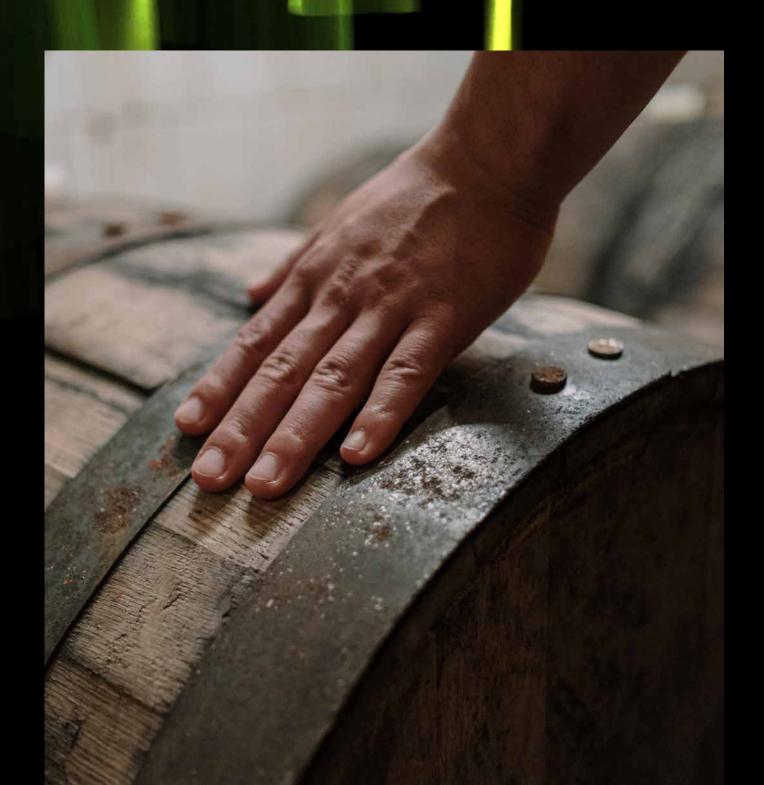
Take care of your wine, we take care of its analysis

BioSystems SPICA

Food & Beverage analysis

human - centred biotech

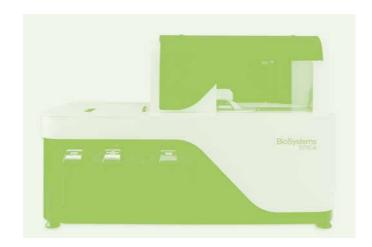








SPICA is a new system; innovative, modular, connected and intelligent.



Automatic oenological analyser

SPICA is set to revolutionize the automatic and multiparametric analytical platforms of the wine sector, SPICA is:

Flexible and modular. Able to configure and adapt to different analytical needs.

Connected. It allows working with any device such as a PC, tablet or even your smartphone, and allows to upload and manage data in the cloud.

Smart and intuitive. The improved autonomy and efficiency of the platform together with a very simple application make it an optimized and user-friendly tool.

Robust and accurate. Incorporating the latest mechanical assemblies offering robustness, repeatability and excellent accuracy.



BioSystems SPICA

SPICA has been designed together with users from all over the world.

Modular and flexible

SPICA has been designed to meet the evergrowing complexity of the wine industries demands. Offering flexibility in programming, SPICA allows users to customize their testing protocols through management of reagents, samples, pretreatments and incubations. Thus improves quality of testing and provides an avenue for future developments and customizations.

The new modular design allows users to add functionality to the SPICA in the form of reagent cooling systems, barcode readers, or a cuvette washing station. These modules can be added at later dates to adapt to changing user needs.

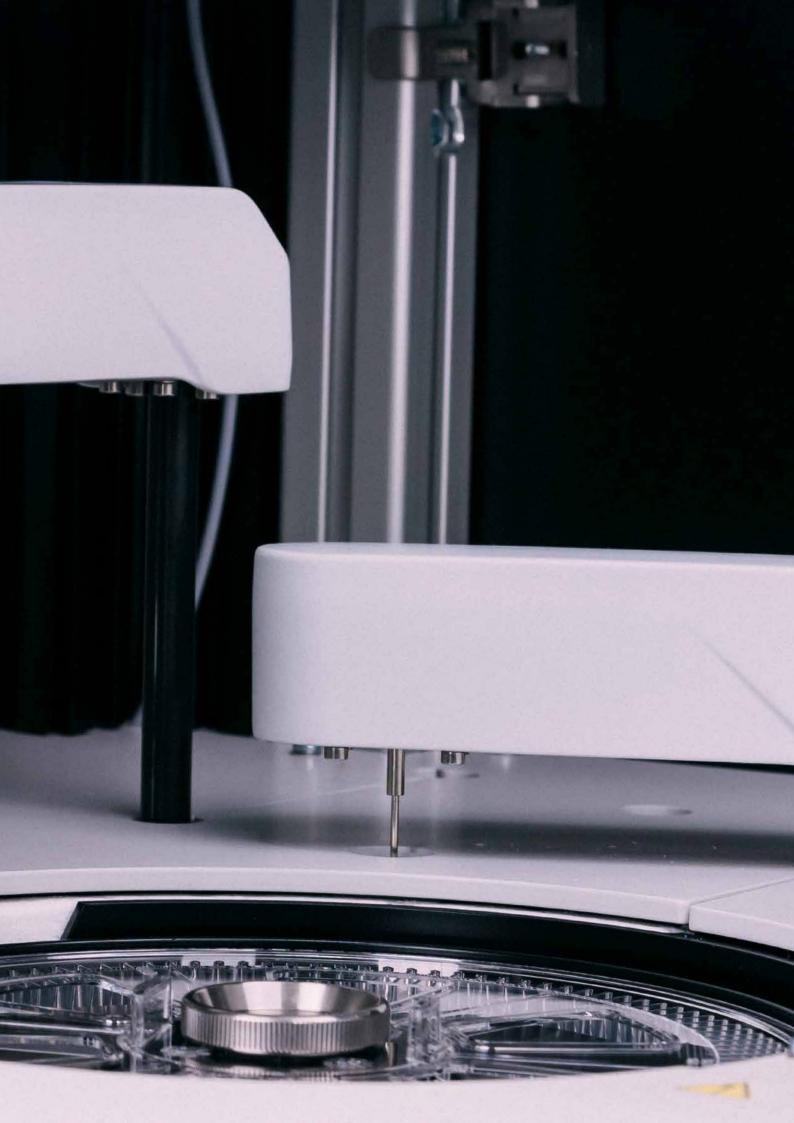




Connected

SPICA improves upon previous experiences with a reimagined user interface focusing on accessibility and ease. The incorporation of an internal computer and cloud-based platform allows users to run the SPICA from any computer or smart device.

Being connected through the Cloud means the analyser no longer connects to software or transfers data to a separate program. The built-in application allows for seamless updates and improvements, along with more efficient access to remote support.





Smart and intuitive

Every stage in the process has been simplified, from setting the device up to the daily routine. No software installations, no peripheral setups, no reagent mixing or expiration control; SPICA takes care of everything.

The new interface is very user-friendly and intuitive, designed on user experience feedback in collaborative partnerships with many companies from all over the world. It's automatically adaptable to any support used.

SPICA will guide you through all the processes, guaranteeing accurate results with low reagent consumption. SPICA accompanies you in your decisions.



Robust and accurate

SPICA provides the precision and accuracy you need for everyday decision making. With the incorporation of a powerful LED optical bank ranging from 280 nm to 750 nm, and a mechanical stirrer, you can be confident in your results.





Biosystems Spica

SPICA reagents

Calibration and control materials

High Glucose/Fructose Control lons Multical Multical Sulfite Control Red/White wine control

lons

Calcium Iron Potassium

Nitrogenous substances and sulfites

Ammonia Free Sulfite PAN Total Sulfite

Organic acids

Acetic Acid
Ascorbic Acid
Citric Acid
D-Gluconic Acid
L-Lactic Acid
L-Malic Acid
Sorbic Acid
Tartaric Acid

Other parameters

Acetaldehyde

Anthocyanins
Catechins
Colour
Glycerol
TPI (Total Polyphenols Index)
pH
Polyphenols
Total Acidity

Sugars

D-Glucose/D-Fructose/Sucrose D-Glucose/D-Fructose

1000 mm

620 mm



650 mm

Technical specifications

Canaral	character	ietice

Speed 140 cycles/hour Mean Throughput 50 results/hour*

Analysis principles Photometry, turbidimetry Analyser type Random access Analyser

Sample and reagent management

Sample and reagent

105 positions (7 racks x 15 positions)

rotor capacity

Barcode readertype Optional

Number of samples with barcodes

Size of primary tubes

12 mm to 16 mm diameter (max. height 100 mm)

Sample well

Sample well diameter 13.5 mm

Reagent bottle volume

20 mL, 60 mL, 10 mL, 40 mL

or 10 + 40 mL

Refrigerated reagents

Refrigerator temperature range 10 °C under room temperature

(at room temperature of 21 °C)

Type of sample pump syringe

Low-maintenance, ceramic piston

Piston diameter

8 mm

Liquids handling limits

2 - 600 µL

Dilution ratio

1:1 to 1:100

Yes

Dispensing resolution

Interior and exterior

Level detection Washing of tip

Optional

Clot detector

Nο

Vertical collision detector

Thermostat tip

Yes Yes

Reaction rotor

Minimum reaction volume 180 µL Maximum reaction volume 800 µL Number of cuvettes 120

Cuvette material UV methacrylate

Type of incubation Drv

Dispensing time

for second reagent

Relative to RA dispensing (variable)

Reaction cuvette temperature 37 °C Accuracy of temperature

Temperature stability

± 0.2 °C ± 0.1 °C

Stirrers

1

Optional table

Single table AC17345

Optical system

Light source LED + Hard Coating Filter

No. of wavelengths

Wavelengths 280 - 340 - 405 - 420 - 505 - 520

-560 -600 -620 -635 -750 nm

Filter bandwidth - 0.2 A to 3.5 A

0.0001 Wavelength accuracy

Photometric range Principal photodiode +

reference photodiode

Internal resolution CV <1% at 0.1 A

Detector Yes

Measurement precision CV < 0.1% at 2 A

(for 340 nm, 405 nm & 505 nm)

Environmental requirements

Room temperature 10 °C to 35 °C

Relative humidity <85% with no condensation

Maximum altitude <2000 m

Contamination grade

Transportation,

0°C to 40°C storage temperature

Transportation

<85% with no condensation and storage humidity

Dimensions and weight

Dimensions (W. x D. x H.) 100 cm x 62 cm x 65 cm

Weight 75 Kg

Electrical requirements

Mains voltage 115 V or 230 V Network frequency 50 Hz or 60 Hz 450 VA Electric power ± 10

Fluctuations of the mains voltage Electric power

Fluid requirements

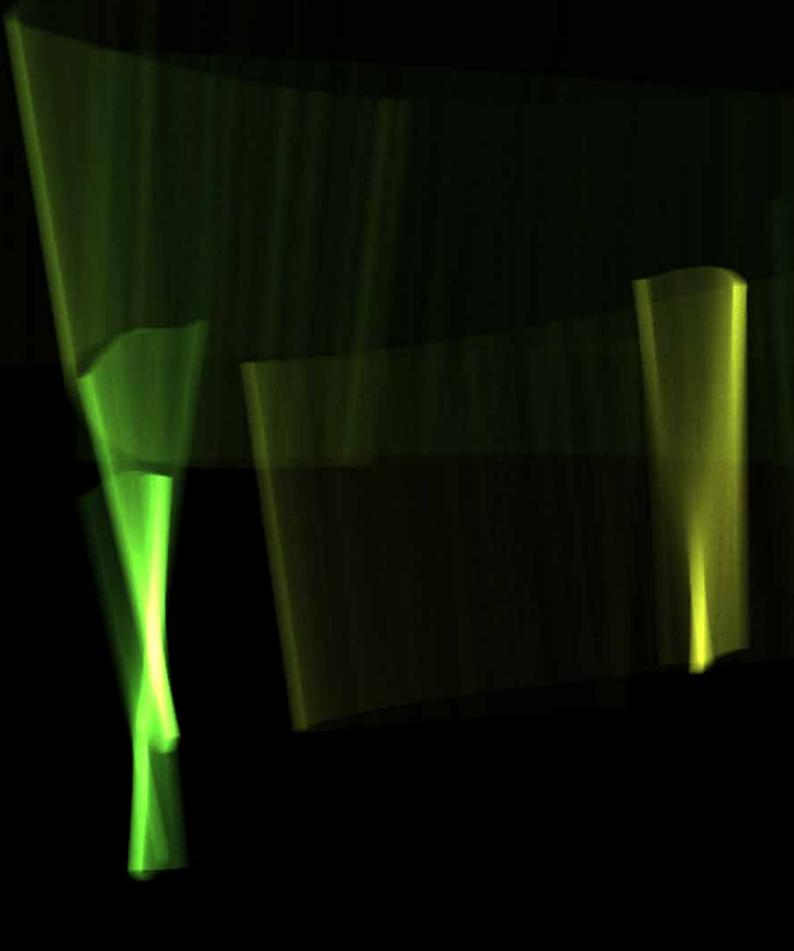
Type of water Fluid requirements

Water tank 3 L Water tank 3 L Washing solution tank

Uninterruptible power supply (UPS)

UPS ref. AC17262 Optional / external

*Average value, final throughput will depend on the configuration of the worklist and the analyte





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Management System ISO 9001:2015

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