

SpectraAlyzer®

wine & spirits



What the package consists of

- SpectraAlyzer® wine & spirits
- Liquid Drawer with flow cell
- FluidDrive conditioning unit wine & spirits
- Application worx software package
- Precalibrations for a wide range and variety of wines and spirits

optional

- Autosampler for automated high-throughput analysis and software add-on for Application worx



Technical Data

Near InfraRed analyzer

Spectral Range: 1445 - 2348 nm

Sample/Reference measurement for each optical filter

High Signal to Noise Ratio > 10000:1

LCD display 240x128 pixel, COB Central Operation Button

Auto-diagnostic functions

Power requirements min. 90 V AC (20-60 Hz) max. 260 V AC (50-60 Hz), 160 VA

Operating temperature 5 - 40 °C non condensing

Height: 490 mm, Width: 330 mm, Depth: 480 mm, Weight: 20 kg

FluidDrive

Sample temperature control 15 - 50 °C ± 0.1 °C

Synchronisation to SpectraAlyzer®, integrated soft control via SpectraAlyzer® modes of operation indicated by front LEDs

Power requirements min. 90 V AC (50-60 Hz) max. 260 V AC (50-60 Hz), 60 VA

Height: 165 mm, Width: 330 mm, Depth: 440 mm, Weight: 10 kg

Your local representative



Hands on Quality Fastest Parameter Evaluation of Wine & Spirits



The SpectraAlyzer® wine & spirits analyzer package is a solution for the routine analysis of major quality parameters during wine and spirits production.

In modern wine and spirits processing operations reliable and accurate analysis solutions are necessary to provide your customers with products of highest and - what is most important - consistent quality. In order to be most competitive in the world market, consistent high yields, top quality and low production costs are the objectives that need to be achieved. Designed as a modular system the SpectraAlyzer® wine and spirits solution presents the analytical results of major quality parameters (e.g. wine: ethanol, sugars, pH and organic acids) within 20 s. These analytical results can be obtained from all your control points in the production process without having the need to manually condition the sample and use of extra reagents. So, the analyzer solution provides highly accurate

quality control parameters at no extra cost. As a stand alone system the analyzer solution can be operated very easily and intuitively - even close to the production line. The rugged construction and internal unique optical sample/reference setup ensures reliable operation in environments with fluctuating temperatures, vibrations and dust.

The SpectraAlyzer® wine & spirits analyzer comes with ready to use calibrations and a powerful software package to facilitate calibration fine tuning and extensive and automated logging as well as database storage of the analytical results.



The SpectraAnalyzer wine & spirits

The analyzer solution consisting of SpectraAnalyzer® (Near-InfraRed spectrometer), Liquid cell and FluidDrive sample conditioning unit is the perfect tool for high precision analysis of liquid samples like wine and spirits in e.g. wine testing and production laboratories. The SpectraAnalyzer® with its unique optical system enables fast and accurate measurements with its extraordinary drift stable sample/reference optics.

The sample can be directly taken from the sample container into the system without pre-heating or other pretreatment. The intelligent analyzer conditions the sample and performs the analysis automatically. Afterwards, it displays the multi component analysis of up to 15 product parameters or sends it to an attached PC. Using a PC, there is the powerful software Application worx that allows for complex data logging, processing and storage as well as calibration development and fine tuning. It is also a great tool to further boost productivity by controlling an optional autosampler for unattended high throughput sample analysis.

The optional XY auto sampler speeds up the analysis of a large number of test samples with minimal attention to analysis operation. Without keeping attention to the progress of the automated analysis 100+ samples can be processed within an hour. Driven by the Application worx software, sample IDs can be setup quickly allowing also for intermediate calibration sample testing or flushing cycles. The output of the results can be customized to most requirements in LIMS operated laboratories.



What it does

- direct analysis of major quality parameters (e.g. wine: ethanol, sugars, pH, organic acids) simultaneously in a single, non destructive analysis
- embedded ready to use calibrations for most quality parameters in wines: (calibrations developed from a broad range of red, rose and white wines from all major wine regions)
- embedded ready to use calibrations for most quality parameters in spirits: (calibrations developed from a broad range of whiskeys, cognacs and brandies worldwide)
- analysis time 20 s incl. sample conditioning with FluidDrive
- stand-alone analyzer solution - no external computer needed

Where the benefit is for use in/at

Laboratory

- quick presentation of analytical results (multi component analysis) saves time, improves efficiency and increases response time
- no reagents needed, no sample preparation – no additional costs
- calibrations can be transferred from one instrument to another
- optional autosampler enables also as retrofit unattended high throughput analysis of 100+ samples/hour

Production

- high frequency routine analysis provides the information the production manager or wine maker needs to adjust the process for optimum yield and quality.
- the timely use of ingredients as well as critical process steps e.g. alcoholic fermentation can be monitored in detail

Bottling

- quick routine analysis gives instant information if your wine/spirit meets the given specification (pre-bottling analysis).
- avoids delay/interruption in bottling process due to continuous observation of quality of product bottled.
- stand-alone analyzer system can be placed close to the production line for quick at-line check of quality parameters
- powerful Application worx software package used as quality assurance tool keeps track of production and product quality by logging analytical values and automatically checking predefined quality parameter limits.

