

# FIStar™ Wine Analyser for Free and Total SO<sub>2</sub>



## Unmatched simplicity – with the 'Plug & Analyse' concept

- Plug-in method cassettes, ready for use
- Software Method Applications – just calibrate and analyse your samples

## Cost-efficient automation – even with smaller series of samples

- Ready for analysis 10 minutes after start-up
- Free and Total SO<sub>2</sub> can be analysed simultaneously
- 50 samples per hour
- Low cost per test



## System description

A multi-channel flow injection analyser for the automatic, simultaneous determination of Free and Total Sulphur Dioxide (SO<sub>2</sub>) in red and white wines and in juice. The complete FIStar™ system, with a 120-position autosampler, offers unattended analysis to maximise laboratory productivity.

Using Flow Injection Analysis (FIA) technology, the FIStar offers an accurate and robust alternative to the manual, labour-intensive distillation and titration methods. Good laboratory practices are integrated into the SoFIA software with many quality assurance and control features.

## Method Cassettes

Pre-configured Method Cassettes are inserted/exchanged all in one grip and automatically connected/disconnected. Starting up and closing down the system is a matter of minutes.

## SoFIA software

Predefined methods and speed buttons for frequently used functions allow for the quick and easy run of samples. QC routines and GLP routines for detection of analytical errors contribute to accurate results. The software also supports a bar code reader for simplified sample registration, import of sample registration files, and it has a LIMS interface for export of sample results.

"Add samples" and "Add an urgent sample" functions will allow you to add samples to the job list or make an instant analysis without stopping an ongoing run.

## System data

### FI Astar™ 5000 analyser

Principle:	Flow Injection Analysis (FIA)
Injector:	6-port variable volume rotary injector
Sample size:	20 – 400 µl
Pump:	Peristaltic pump with stand-by feature
Thermostat:	Built-in thermostat, 35°C – 120°C, ± 1°
Method Cassette:	Reagent consumption 0.3 – 2 ml/ sample
Detector:	Digital Dual Wavelength photometer with automatic background correction
Flow cell:	10 mm path length; 18 µl volume
Wavelength range:	400 – 1 000 nm plug-in filters
Absorbance interval:	0 – 2.5 AU
Resolution:	0.001 mAU
Reproducibility:	Better than 1% r.s.d.

### SoFIA software

Calibration points:	Up to 10 standards
Calibration curve fit:	Linear or second order ISO 8466
QC & GLP routines:	Check samples; multiple sample and standard runs; automatic re-calibration; out of reagent, out of sample, and out of range warnings. Password protected user levels

### Sampler 5027

Principle:	Circular
Sample trays:	For 64 or 120 samples
Cups/volume:	64 cups/30 ml or 120 cups/12 ml
Side tray:	10 positions for standards and QC

## Installation requirements

### FI Astar™ 5000 analyser

Power supply:	100 – 240 V AC, 50 – 60 Hz (24 V DC)
Dimensions W×D×H:	625×310×145 mm
Weight:	8.7 kg
Power consumption:	70 W
Connection to PC:	USB (Universal Serial Bus)

### Sampler 5027

Power Supply:	100/115/130/200/240 V, 50 – 60 Hz
Dimensions W×D×H:	625×400×260 mm
Weight:	14 kg
Power consumption:	20 W

### PC specifications

PC with Windows™ XP, Service Pack 3 installed.

At least 32 MB RAM

40 MB available space on hard disc drive

1,44 MB floppy or CD drive

One USB port for each connected FIA module

One RS 232 port for communication with 5027 Sampler, additional RS 232 port for data transfer to LIMS

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