

FOCUS

Robotic Sample Processor

FOCUS is a highly versatile system, designed to process samples for routine Gas Chromatography (GC) and GC/Mass Spectrometry analyses.

Sample preparation procedures, including liquid-liquid extraction and derivatisation, can be selected, programmed and fully automated to meet specific analytical requirements.

Located above GC, FOCUS requires no additional bench space. It is based on a robotic XYZ arm with a motorised syringe, and comprises separate vial trays for samples and solvent/reagents, syringe wash station and a heated sample agitator for mixing. Control is through either a local module or through a PC with software running under Windows.



Advanced Features:

- Sampling
- Solvent and reagent and standard additions
- Derivatisation
- Liquid-liquid solvent extraction
- Large Volume Injection
- Liquid-liquid extraction can be combined with Rapid Large Volume Injection (RLVI)
- Automated Extraction of relatively small volumes of sample is possible while retaining trace detection limits
- SPME
- Static Headspace injections
- Automatic Liner Exchanger
- Gripper options
- ITEX Sample Extraction



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Fully automated for routine applications

- Saving time
- Reducing labour costs
- Removing many manual tasks
- Improving analytical precision

Modular concept for flexibility

The Focus Sample Processor is based on a XYZ robotic syringe that can be user programmed to emulate procedures commonly used in the preparation of samples. The concept is simple and straightforward, with no need for sample to be pressurised or to be in contact with valves or transfer lines. The whole operation can easily be observed and any changes to the programme can be readily made.

Specifications:

System Type:	XYZ robot with syringe only concept, no tubing in sample path
Probe positions precision:	+/- 0.1 mm
Syringe sizes:	1, 10, 100, 500 and 1000 µl
Agitator:	6 heated vial positions for 10/20 ml vials Temperature range: 40-200°C Orbital motion Selectable interval shaking
Sample Capacity:	Choice of 2 sample trays Options available: 32 x 10 ml or 20 ml vials 98 x 2 ml or 78 x 1 ml vials
Needle, syringe cleaning:	Liquid injection Wash station with 2 different solvents
Control and programming:	Option of local or PC interfaces Local: control panel with 4 function keys, graphical LCD and unique scroll knob to teach functions PC: Operated via RS232 to provide scheduling of samples and methods construction of processing sequences
Electrical control:	2 RS232C ports 3 TTL input/ 3 TTL output 2 optocouplers input/ 2 relay output
Dimensions:	L 828 mm x W 385 mm x D 648 mm
Weight:	10 kg (without accessories)



a total analytical solution

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