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Find the *Thermo / Dionex AS3500* at our website: *Click HERE*

Product Specifications

The Finnigan™ SpectraSYSTEM™ AS1000 /AS3000 /AS3500 Modules provide high-performance automatic sampling at entry level pricing. Configuration flexibility includes fixed volume injection, variable volume injection, column oven, sample preparation, and sample tray temperature control.

AS1000/AS3000/AS3500 Autosamplers

For automatic routine sampling and complete sample preparation



- **Automated sample preparation**
- **Micro-robotic operation**
- **120-vial capacity with random vial access**
- **Re-use of calibration standards**
- **PC-based control available**
- **Numerous integrated options available**
- **Optimum sensitivity and selectivity with Thermo Electron columns**

AS1000–Fixed-volume Injection Autosampler

The AS1000 is designed especially for laboratories that process large numbers of samples on a routine basis. Injection volume can be varied simply by changing the sample loop. The standard unit allows 120 sample vials, multiple methods, and the capability to re-use calibration standard vials.

AS3000–Variable-volume Injection Autosampler

The AS3000 provides outstanding performance and maximum flexibility in an LC sample processing system. The standard unit offers 120-vial capacity, multiple injection modes, random vial access, re-use of calibration standards, and priority sampling.

AS3500–Inert Autosampler

The AS3500 autosampler provides all the features of the model AS3000, but in an inert version. This autosampler is ideally suited for biological applications that require metal-free operation or applications that utilize corrosive solvents or buffers.

Integrated Options

For applications flexibility, the AS1000 can be configured to include an integrated column oven and sample tray temperature control. The AS3000 and AS3500 can be purchased with integrated column oven, sample tray temperature control, or sample preparation accessories.

Column Oven

Provides complete control of the column and injector temperature for increased separation efficiency and reproducibility. Available on AS1000, AS3000, and AS3500 models.

Tray Temperature Control

Tray temperature control stabilizes temperatures, heats and cools samples, and minimizes the effects of ambient temperature fluctuations. The tray temperature control is completely self-contained; there are no external parts, connections, or water baths. Available on AS1000, AS3000, and AS3500 models.

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AS1000/AS3000/AS3500 Autosamplers

Sample Preparation

Outstanding dilution performance, a unique vortex mixer and vial heater, and a flexible, easy-to-use sample preparation language provide unmatched sampling versatility and capabilities. Available on AS3000 and AS3500 models only.

PC-based Control Available

Remote programming is possible with Thermo Electron's chromatography data systems. Atlas™ 2003 provides remote instrument control of the autosamplers, making them part of a fully integrated, PC-controlled system.

As with most other SpectraSYSTEM components, the AS-series atuosamplers utilize the SN4000 System Controller for communication with the Atlas PC-based chromatography data system.

Vial Capacity

120 vials; 105 vials with temperature-controlled tray

Variable Volume (AS3000 and AS3500)

Injection Precision
< 0.5% RSD @ 10 µL

Injection Volume
0.1–100 µL injections standard up to 1500 µL injections with larger loops and syringe

Fixed Loop (AS1000)

Injection Precision
< 0.5% RSD @ 20 µl or greater

Injection Volume
20 µL loop standard up to 500 µL injections with larger loops and syringe

Sample Carryover

Typically < 0.01% at 400 µL flush volume

Minimum Sample Volume

1 µL can be injected from 10 µL

Needle Height

Programmable in 0.1 mm increments

Column Oven (optional)

20–80 °C in 1 °C increments, starting at 5 °C above ambient

Tray Temperature Control (optional)

0–60 °C in 1 °C increments
(Typical sample temperature: 4–50 °C)

Sample Preparation (optional)

Mixing/Heating
Single vial, air-driven vortex mixer/heater, settable in 1 °C increments from 30–100 °C

Dilution Precision
Typically < 1.0% RSD for a 1/100 dilution (10 µL to 1 mL) for the combined dilution and injection

Dispensing Precision
Typically < 0.2% RSD for 1 mL dispensing from external solvent reservoir

Method Files

Protected in non-volatile memory

Communications

Remote Inputs
Pump Ready, Inject Hold

Outputs
Pump Stop, Autosampler Ready, Gradient Start, Inject

4 timed event outputs
RS-232C

Ambient Environment

10–40 °C, 5–95% relative humidity, non-condensing

Dimensions

37 × 41 × 51 cm (H × W × D)

Weight

16 kg standard; 24 kg with all options installed

Power Requirements

100/120/220/240VAC nominal; 80–450VAC, depending on installed options; 50/60 Hz

Product Certification

TUV CUS

TUV CE Mark

FCC (EMI)

Part Number	Description
AS1000-010	AS1000 Fixed Volume Autosampler
AS3000-020	AS3000 Variable Volume Autosampler
AS3500-030	AS3500 Inert Autosampler
A5765-010	SpectraSYSTEM Accessory Rack
ATLAS-64010	Atlas 2003 Chromatography Data System
A5183-010	Hypersil-Keystone C8 Column 15 cm × 4.6 mm
CHROM-64001	SN 4000 System Controller
A4954-010	Autosampler Vial Kit (100 1.8 mL vials)

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