



DS3000A

Liquid GC autosampler

Offering reliability and superior performance for all GC-GC/MS applications, meeting the requirements of both today and tomorrow.



Multi-phase sampling

Sandwich injection

Priority sampling

Ambient headspace sampling

Nanoliter injection

DS3000A has been engineered for **maximum performance and reliability**. The new system takes advantage of today's latest technology to deliver even greater reliability, performance and flexibility.

KEY FEATURES:

- 50+ GC models supported
- 1 turret serves 2 injectors
- Extraordinary performance
- Requires low maintenance

The **DS3000A** is the **most compact** autosampler on the market, with a near-to-zero requirement for bench space, while offering a **top-class sample capacity**. The **sample rack** can be removed for sample loading or preparation, or for storage elsewhere.

The **DS3000A** is available in the standard version with 121 positions for 2ml vials. The top version **DS3000A** has 209 positions, while the entry-level version **DS3000A** has a 15 position fixed rack.

It can be easily installed on all the GC and GC/MS systems available in the market, because of flexibility and modular configuration. It can be configured to **serve up to two injectors** in most supported GCs.

The self-aligning "plug and play" **DS3000A** mounts in seconds, without tools. It can be easily moved between GCs when workloads change, due to its easy positioning, repositioning and easy removal.

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Easy to use: Just load the samples and run the analysis with no extra downtime. The new **run-all-samples mode** makes the operation of sample processing even more simple and transparent.

HTA is the first to offer GC liquid autosamplers with a large, full-color **touch screen interface**, providing easier system accessibility and usability. The touch screen eliminates drilldown, simplifying instrument control for both novices and experienced users.

The **DS3000A is the fastest liquid autosampler available** on the market: injection is performed in less than 100ms. Fast-injection technology ensures the best possible peak shape, while maximising the accuracy of your results.

The **greater solvent capacity** means longer unattended operations. The autosampler supports the use of six solvent vials of 10ml each, giving a total capacity of 60ml.

Furthermore, advantage can be taken of the **double wash step capability**: as pre- and post-wash solvent in addition to A, B... F solvents you can also choose for a combination of A+B, A+C.... F+E solvents for superior analytical performance (carry-over adverse!).

DS3000A handles the **most sophisticated sampling techniques**. Parameters are easily programmable to optimise both the most convenient sampling methods for both extremely volatile or viscous samples and the best injection technique. **Variable needle depths** allow you to samples to be taken from anywhere within the vial, thus performing extractions directly from the vial.

From small-volume injection to large-volume injection and multi-phase sampling, **DS3000A** can help to process samples more quickly and to access better data. It can also mount **different types of syringes**, with volumes from 0.5 to 100µl.

DS3000A offers **syringe illumination** to always keep the sample under control, in order to check against air bubbles in method validations.

The **rotating tower leaves the injector port free for manual injection or maintenance**. In addition to avoiding any complicated sample vial transfer procedures, this approach keeps the **samples away from any heated source**. In fact, the sample rack is mounted away from the GC oven to prevent exposure to high temperatures, which could cause degradation or condensation in the sample vial.

The **DS3000A** can be also controlled by a PC using the **DSS Autosampler Manager**.

DS3000A Technical specifications

General features

Syringe volume: 0.5, 1, 5, 10, 25, 50 and 100µl
 Tray capacity: 121 vials, 2ml; optional tray available
 Maintenance: preventive counters available
 Electrical control: LAN and TTL; optional: RS232
 Syringe area illumination: yes (programmable)

Filling

Sample volume: as low as step of 0.1µl
 Air volume: as low as step of 0.1µl
 Filling speed: 1-100µl/sec
 Viscosity delay: 0-15s
 Bubble elimination: up to 1.5 pull up strokes

Injection

Injection speed: 1-100µl/sec
 Injection depth: programmable
 Pre and post inj delay: 0-99s

Washing

Type: pre-injection, sample, post-injection
 Solvent capacity: 6x10ml vials
 Mode: single or double wash

Internal standard technique

IS volume: as low as step of 0.1µl
 Air gap volume: as low as step of 0.1µl
 Mode: 1 or 2 air gaps

Physical features

Dimensions (WxHxD)¹: 280x570x320mm
 Weight: 8kg
 Power supply: 100-240±10%Vac; 50-60Hz; 60VA

¹ tray in closed position

Distributed by:

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