



HT3000A

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

HT3000A 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 **HT3000A** 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 **HT3000A** is available in the standard version with 121 positions for 2ml vials. The top version **HT3200A** has 209 positions, while the entry-level version **HT3100A** 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" **HT3000A** mounts in seconds, without tools. It can be easily moved between GCs when workloads change, due to its easy positioning, repositioning and easy removal.

HTA - Sampling for science

www.hta-it.com



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 **HT3000A 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!).

HT3000A 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, **HT3000A** 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.

HT3000A 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 **HT3000A** can be also controlled by a PC using the **HTA Autosampler Manager**.

HT3000A 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 15 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

HTA,
the
company

HTA is one of the leading Italian scientific instrument engineering and manufacturing companies. We are currently focused on applications and solutions for analytical, life sciences and clinical chemistry automation. Our specialisation is in robotic systems for sample management; among our most popular products are the GC and HPLC autosamplers and preparative workstations. In addition, HTA offers engineering and manufacturing consultancy services for its OEM customers. HTA's quality management system is certified UNI EN ISO 9001:2008.



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