



# HT3000A

## Liquid GC autosampler

HT3000A autosampler offers reliability and superior performance for all GC-GC/MS applications meeting today's and tomorrow's requirements



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

**HT3000A** is the **most compact** autosampler on the market (near-to-zero requirement for bench space) while offering **top-class sample capacity**. The **sample rack** can be removed for sample loading or preparation, or to be stored elsewhere.

**HT3000A** is available in the standard version with 121 positions for 2ml vials; in the top version **HT3200A** with 209 positions; in the entry-level version **HT3100A** with a 15 position fixed rack.

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

The self-aligning "plug and play" **HT3000A** mounts in seconds without tools. It can be easily moved between GC when workloads change (easy positioning & easy removal/repositioning).

**HTA - Sampling for science**

[www.hta-it.com](http://www.hta-it.com)



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

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

**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 maximizing the accuracy of your results.

**The greatest solvent capacity** means longer unattended operations. The autosampler supports the use of 6 solvent vials of 10ml each (total capacity: 60ml).

Furthermore you can take advantage from 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 optimize both the most convenient sampling method for extremely volatile or viscous samples and the best injection technique. **Variable needle depths** allow you to sample anywhere within the vial, thus performing an extraction directly from the vial.

From small-volume injection, to large-volume injection, to multi-phase sampling, **HT3000A** can help you process samples more quickly and get better data too. It can mount **different types of syringes** with volume from 0.5 to 100µl.

**HT3000A** offers **syringe illumination** to keep always the sample under control, for easy check against air bubbles in method validation.

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

**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)\*: 280x570x320mm  
 Weight: 8kg  
 Power supply: 100-240±10%Vac; 50-60Hz; 60VA

(\*): tray in closed position

**HTA,**  
 the  
 company

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



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