



HT3000A series Liquid GC Autosamplers

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

KEY FEATURES:

- 50+ GC models supported
- 1 turret serves 2 injectors
- Extraordinary performance
- Touch screen powered
- Move freely between GCs











HT3000A has been engineered for fixed rack. maximum performance and reliability. The new system takes advantage of **The system is fully self-contained** and flexibility.

autosampler on the market, with a nearto-zero requirement for bench space, while offering a top-class sample The rotating tower leaves the injector run the analysis with no extra downtime. capacity. The HT3000A sample rack can be removed for sample loading or preparation, or for storage elsewhere.

version HT3100A has a 15 position cause degradation or condensation in touch screen eliminates drilldown,

today's latest technology to deliver and can be easily installed on all even greater reliability, performance the GC and GC/MS systems available in the market, because of flexibility and modular configuration. It can be The **HT3000A** is the **most compact** configured to **serve up to two injectors** easy removal. in most supported GCs.

port free for manual injection or maintenance. In addition to avoiding any complicated sample vial transfer procedures, this approach keeps the The HT3000A is available in the samples away from any heated source. HTA is the first to offer GC liquid

the sample vial

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 to use: Just load the samples and The new run-all-samples mode makes the operation of sample processing even more simple and transparent.

standard version with 121 positions In fact, the sample rack is mounted away autosamplers with a large, full-color for 2ml vials. The top version **HT3200A** from the GC oven to prevent exposure **touch screen interface**, providing easier has 209 positions, while the entry-level to high temperatures, which could system accessibility and usability. The novices and experienced users.

The HT3000A is the fastest liquid (carry-over adverse!). 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 capacity of 60ml.

Furthermore, advantage can be taken of and post-wash solvent in addition to A, from the vial.

sophisticated sampling techniques: 0.5 to 100 µl. internal standard technique (also know nanoliter injection and much more. Parameters are easily programmable to optimise both the most convenient sampling methods for both extremely solvent vials of 10ml each, giving a total volatile or viscous samples and the best by a PC using the HTA Autosampler taken from anywhere within the vial, software can run in standard mode or the **double wash step capability:** as pre- thus performing extractions directly with full CFR 21 Part 11 compliance.

simplifying instrument control for both B... F solvents you can also choose for a From small-volume injection to largecombination of A+B, A+C.... F+E solvents volume injection and multi-phase for superior analytical performance sampling, HT3000A can help to process samples more quickly and to access better data. It can also mount different HT3000A handles the most types of syringes, with volumes from

> as sandwich injection), multi-phase, HT3000A offers syringe illumination to ambient headspace, priority injection, always keep the sample under control, in order to check against air bubbles in method validations.

> The HT3000A can be also controlled injection technique. Variable needle Manager (please see the dedicated depths allow you to samples to be brochure) . HTA Autosampler Manager

HT3200A

Due to its 209 2mL sample vials, the **HT3200A** is setting a new standard in the market. Samples are organised in two racks that can be easily removed for sample loading or preparation, or to be stored elsewhere.

An integrated Bar Code Reader¹ can be available with every HT3200A unit, offering full and detailed sample tracking.

The HT3200A features the innovative SyringelD², a proprietary technology based on RFID tags. The SyringeID is able to **identify syringes** in an univocal way; thereby preventing errors when mounting a syringe, preventing syringe volume mismatching and keeps track of the syringe consumption (preventive maintenance counters). The SyringeID system is able to provide you with a level of confidence never previously achieved by identification systems based on syringe carriers.



HT3100A

Analysing fewer samples? Get precision and performance with a system that is perfectly sized for your needs. The HT3100A offers automation for processing up to 15 unattended samples.

Quick sets of autosampler parameters can be done by the free PC control (HTA Autosampler Manager), provided together with the HT3100A, while all the routine operations such as analysis start, sample loading and extra wash can be managed by its dedicated keypad.

With HT3100A free software "HTA Autosampler Manager (Standard Version)" is provided for PC control; upgrade to "HTA Autosampler Manager (CFR 21 Part 11 Version)" should be purchased separately. PC is required for setup, service, method and sequence editing.



| | HT3100A | HT3000A | HT3200A |
|---|--------------|-----------------------------------|------------------------------------|
| Sample Capacity | 15 samples | 121 samples (1 removable rack) | 209 samples (2 removable racks) |
| User Interface | Keypad | Touch Screen | Touch Screen |
| Syringe Housing Illumination | | \checkmark | \checkmark |
| SyringeID ² | | | \checkmark |
| BCR (Bar Code Reader)¹ | | | Optional |
| Software: HTA Autosampler Manager (Standard Version) | Included | Free trial (60 days) | Free trial (60 days) |
| Easy fixing/ Repositioning system | \checkmark | \checkmark | \checkmark |

TECHNICAL SPECIFICATIONS

General features

Syringe volume³: Maintenance: Electrical control: Syringe area illumination:

preventive counters available LAN and TTL; optional: RS232 yes (programmable) for HT3000A/HT3200A

Tray capacity

HT3000A4: HT3200A: HT3100A:

121 vials, 2ml (1 removable rack) 209 vials, 2ml (2 removable racks)

0.5, 1, 5, 10, 25, 50 and 100 μl

15 vials, 2ml

Filling

Sample volume: as low as step of $0.1\mu l$ Air volume: 1-100µl/sec Filling speed: Viscosity delay:

Bubble elimination:

as low as step of $0.1\mu l$

0-15s

1-100µl/sec

0-99s

programmable

up to 15 pull up strokes

Injection

Injection speed: Injection depth: Pre and post inj delay: Washing

Solvent capacity: Mode:

Internal standard technique IS volume: Air gap volume: Mode:

Physical features

Dimensions (WxHxD)5: Weight (HT3000A): Weight (HT3200A):

Power supply:

pre-injection, sample, post-injection

6x10ml vials single or double wash

as low as step of 0.1ul as low as step of 0.1µl 1 or 2 air gaps

280x570x320mm 8.0kg 9.2kg Weight (HT3100A): 6.4kg

100-240±10%Vac; 50-60Hz; 150VA

- ¹ Not compatible with Serial Port (RS232)
- ² Patented technology
- ³ OEM and Custom versions with extended syringe range are available
- ⁴Custom trays are available
- ⁵ Tray in closed position for HT3000A and HT3200A



When it comes to designing and manufacturing robotics solutions, there's no company more dedicated, experienced and knowledgeable in the scientific industry than HTA. We offer an extensive collection of analyzer front-ends and sample preparation workstations designed to fit applications in analytical chemistry, life sciences and clinical laboratories; this even includes GC, LC and ICP autosamplers. HTA manufactures in Italy under a certified UNI EN ISO 9001:2015 and 13485:2016 quality management systems.

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