



HT300L

The HPLC autosampler

Nano
Volume
Option now
available

Double
Loop
Option now
available



WITHIN THE STANDARD CONFIGURATION:

- Syringe
- Full & Partial loop
- Derivatization capability
- Dilution capability
- Bubble elimination

...At the price of an entry-level autosampler.

HT300L offers superior reliability and performances by its syringe sampling system.

Easy-to-use: programmed by the integrated keypad or by Clarity DataApex chromatography data system.

Fits most common HPLC systems: by its flexibility and modular configuration. The communication port of the autosampler has a variety of input and output signals to ensure that it can interface with your HPLC system.

Direct syringe injection minimizes dead volume, reduces carry-over and improves repeatability. **Full and partial loop are both performed with very accurate values.** In fact the accuracy of the injected quantity is handled by the syringe (and not only by the loop, as per pressure based autosamplers).

At the price of an entry-level autosampler, it can afford – already in the standard configuration – the derivatization and the dilution of the sample.

Within the standard configuration the autosampler is equipped with an automatic 6-way vertical injection-port valve.

Handling of difficult samples. **Variable fill speed** allows a wide range of sample viscosities with incredible performance (linearity: typical Area/Quantity value 0.999999). By a **short flow path** (made up only by the syringe and the valve) **it is able to handle even the most aggressive solvents.**

Few maintenance required.

HTA - Sampling for science

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**HT300L with
Large Volume Option**

Do you need to inject large volume samples, up to 10ml and more? **HT300L** coupled with **Large Volume Option** is the autosampler you need. Based on the same **HT300L** platform, it is provided with solvent and waste nozzles for unlimited solvent/waste capacity. Optional syringe volumes are available for special applications up to 70ml.



**HT310L: manual
injector alternative**

Derived from the standard version, **HT310L** has a capacity of 10 samples (not upgradable to 110 version). By its cost effective pricing is the alternative to manual injector for users that cares about reproducibility and accuracy.

BIOcompatible Option

Handling biocompatible samples doesn't require to buy expensive upgrade or dedicated autosamplers. BIO option is available between accessories.

Double Loop Option

Allows the simultaneous installation of two loops of different sizes (e.g.: 20µl and 100µl). You can switch loop by front panel without any hardware change: switching loop has never been so easy!

Nano Volume Option

Special version designed for sub-microliter injections. It features extraordinary analytical performance with the highest reliability.

PLUS Option

It adds support to **complex and custom methods** at your autosampler. Native support to MEPS technology by SGE!

HT300L Technical specification

General features

Syringe volume:	Standard: 100, 250, 500µl Large Volume Opt.: 0.1, 0.25, 0.5, 1, 2.5, 10ml Nano Volume Opt.: 10, 100µl
Tray capacity:	HT300L: 110 vials, 2 or 2.5ml HT310L: 10 vials, 2 or 2.5ml Large Volume Opt.: 40 vials, 10ml

Analytical performance

RSD (vol.>5µl):	Full loop: 0.3% (typically 0.15%) Partial loop: 0.6%
RSD (vol.≥0.5µl):	Full loop: 0.4% (typically 0.2%) Partial loop: 0.6%
Carry over:	0.1%
Linearity:	0.999

Pre & post wash

Volume:	as low as step of 0.1µl/sec
Mode:	every injection/ sample/ step
Washing cycles:	up to 15

Filling

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

Injection

Injection speed:	1-100µl/sec
Waiting time:	before and after injection 0-99s

Derivatization techniques

Volume:	as low as step of 0.1µl/sec
Time:	0.1-25min.
Repetitions:	up to 15

Physical features

Dimensions (WxHxD):	600x520x400mm (HT300L)
Weight:	13kg (HT300L)
Power supply:	115V/230V - 50Hz/60Hz

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.



Distributed by:

HTA s.r.l.

via del Mella, 77-79 - 25131 Brescia - ITALY

T: +39 030 3582920 - F: +39 030 3582930

info@hta-it.com - <http://www.hta-it.com>