



HT800L

The HPLC sampler

HT800L is a compact and versatile autosampler for highly precise injections into HPLC and UHPLC



KEY FEATURES:

- Large autonomy: up to 120 vial per run or 2 SBS plates
- Management of full loop, partial loop and microliter pick-up injections with unattended results
- Dilution, derivatization, pH spiking and internal standard addition capability within standard version
- Up to 10+1 reagents available
- Service friendly design

Fits the most common HPLC, UHPLC and LC/MS systems. The repeatability, the versatility, the high sample throughput and the economic pricing make this autosampler the best choice for a large variety of HPLC applications!!!

Easy-to-use. User-friendly PC interface to create methods and sequences in a simple way. **Additional keypad** designed for every operation that would be uncomfortable to do by a Data System: for wake-up and shut down maintenance, extra washing and line rinsing.

HT800L provides excellent analysis efficiency through **its accurate syringe system** that takes care to assure high performance with every vial/plate configuration unlike pressure based systems.

Designed for minimal carry-over. Double step washing (by system liquid and by an aggressive solvent), internal and external needle washing and total line washing ensure a minimal carry-over.

It can handle **up to 120 vials per run and it can work with different kind of SBS plates.** **Removable racks** assure easy and quick sample loading; **polarization on racks** assures error free procedure.



Easy for routine.
Rich in features for research.

HTA - Sampling for science

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Fast. HT800L can work at very high speeds (low cycle time). **Safe.** A sampling chamber sensor ensures that when the door is open a deboosting protection is activated, while lights inside sampling chamber assure an easy visual contact with samples.

Dilution, derivatization, pH spiking and internal standard addition are available within the standard version: no extra cost required. These operations can be performed in place or in an empty vial by sample dispatching (**Quantified Preparative**).

Versatility. Up to 10+1 different reagents are available to assure complex tasks and long autonomy.

Different injection modality. Full loop is performed with very high accuracy values, while partial loop and microliter pick up also allow sample saving. The variable **fill speed** and the **viscosity delay** allow a wide range of sample viscosities; **programmable sampling depth** assures high sample recover capacity.

BIOcompatible Version

To handle more complex samples and to assure a wider pH range covering.

Cooling Version

Cooling and heating capability to maintain samples and reagents at a controlled temperature.

UHPLC Version

For micro volume as low as 1µl, for pressure as high as 15,000psi.

HT800L specifications

General specifications

Syringe volume: 500µl (Standard); Optional: 250µl and others
Loop: 100µl (Standard); Optional: 20µl and others
Tray capacity: 120x2ml vial; micro-inserts supported
Optional:
- 2x96-SBS-plate (micro, shallow, deep)
- 2x96-PCR-plate (not-skirted, semi-skirted, skirted)
- 2x96 microtubes rack
Cycle time: 50sec.
Valve: 6-port, 2-position

Analytical performance

RSD (vol. >5µl): Full loop: <0.3% (typically 0.15%)
Partial loop: <0.5% (typically 0.25%)
Carry over: 0 (Not detectable)¹
Linearity: 0.999

Wash (Pre & Post Injection)

Washing cycle: up to 9 (Mode: every injection/sample/step)
Reagents: up to 2 different reagents for wash function

Filling

Sample volume: step of 1µl
Filling speed: programmable up to 2500µl/sec
Viscosity delay: 0-25s

Injection

injection speed: 1-2500µl/sec
Injection mode: full loop, partial loop, microliter pick up
Air gap: programmable
Flush volume: step of 1µl
Analysis time: 0-999min

Dilution, derivatization, pH spiking, IS addition

Sample dispatch: step of 1µl
Reagent addition: step of 1µl; up to 3 different reagents
Mixing cycle: programmable
Intermediate wash cycle: up to 9 (with reagent or sample)
Reaction time: 0-100 minutes (0.1 minutes step)

Physical characteristics

Dimensions (WxHxD): 300x346x546mm
Weight: ca. 19Kg
Power: 115V/230V; 50Hz/60Hz
Connection: RS232 (Standard); Optional: USB

UHPLC version

Syringe volume: 100µl (Injection mode: full loop, partial loop)
Loop: 5µl
RSD (vol. ≤5µl): Full loop: <0.4%; Partial loop: <1%

Cooling

Temperature range conditioning: from 4°C to 60°C
Temperature accuracy (between the vials): +/-1°C (typically +/-0,5°C)
Cooling capacity: about 15°C below the RT (on the vial)
Working ambient temperature: 25°C +/-10°C
Weight: ca. 5Kg

Require a PC for method and sequence editing.

¹ Tested with Uracile 50ppm in mobile phase 75% methanol : 25% water; Column C18; 2 purge

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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