



# HT280T

## All in one autosampler: headspace, liquid, SPME

HT280T is the most complete GC autosampler,  
able to carry out static headspace analysis,  
liquid sample injection and SPME



### KEY FEATURES:

- **It can be easily installed on all the GC and GC/MS;** it can be configured in the right or left position
- **It's compact and easy to use**
- **No transfer line** means no carry over
- **Rotating head design leaves injection port free for manual injection**
- **Earlier sample preparation** to eliminate waiting time between a chromatographic analysis and the following one
- **Require low maintenance**
- It grows with your needs by its modular configuration

**HT280T** is a single unit combining the functions of autosampler for liquid, static headspace and SPME.

Conversion from one mode to another is an easy and fast operation. It takes around 5 minutes, it doesn't require autosampler disassembly, but only the tray and syringe replacement to fit with the sampling mode chosen. The conversion kits (liquid, headspace and SPME) are supplied separately according to your needs.

It can be controlled by the integrated keypad or by PC, it can run up to 110 samples (liquid mode) or 40 samples (headspace and SPME).

**HTA - Sampling for science**

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

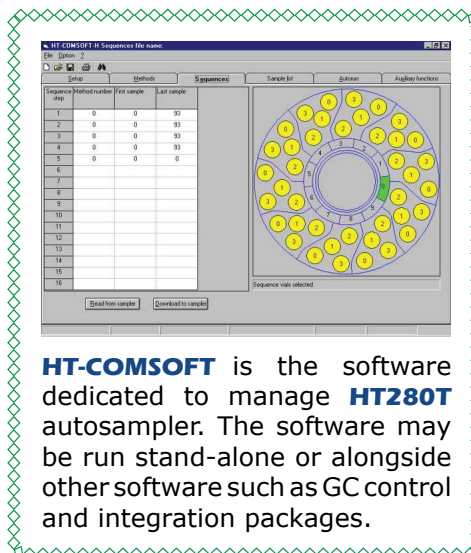
## Focus SPME

**HT280T** supports the derivatization pre- and post-extraction, as the different SPME applications can require. The extraction is carried out in the heated and shaken oven: the possibility to set shaking speed also very low allows to minimize the mechanical stress on the fiber.

**The oven cover is kept closed during the extraction phase: this is very important to assure temperature homogeneity, especially if the extraction time is very long.**

The unit supports the post-extraction fiber washing in liquid phase by immersion in an opportune solution, and the post-desorption fiber washing by exposition in the injector or in an external washing station (optional).

*SPME products are sold under licence from SUPELCO under U.S. Patent 5,691,206 and/or any divisions, continuations or revisions thereof.*



**HT-COMSOFT** is the software dedicated to manage **HT280T** autosampler. The software may be run stand-alone or alongside other software such as GC control and integration packages.

## HT280T Technical specifications

### General specifications

Dimensions (LxHxD): 420x620x400mm  
 Weight: 11.5 kg  
 Power: 115V/230V – 50Hz/60Hz  
 Electrical Control: RS232 and TTL

### HEADSPACE

Tray capacity: 40 vial, 10ml or 20ml  
 Syringe volume: 2.5ml  
 Cleaning system: inert gas flush

### Conditioning

Oven positions: 6  
 Oven temperature: 40 – 150°C  
 Conditioning time: 0 – 23h59min  
 Progressive increase: 0 – 9h59min  
 Shaker method: orbital  
 Shaker speed: 320 - 750rpm  
 Shaker cycles: on/off 0 – 9.9min

### Sampling and Injection

Syringe temperature: 40 – 150°C  
 Sampling volume: steps of 0.01ml  
 Sample homogenization: up to 15  
 Filling speed: 0.1 – 100ml/min  
 Other set parameters: injection speed, dwell time between injections, equilibration time, pre/post injection dwell time, enrichments

### SPME

Extraction: liquid phase/  
 headspace vapors

Tray capacity: 40 vial, 10ml or 20ml  
 Oven temperature: programmable, 40 - 150°C  
 Shaking: orbital, 10 programmable speeds

### LIQUID

Tray capacity: 110 vials, 2 or 2.5ml  
 Syringe volume: 1, 10, 25, 50 & 100µl

### Filling

Sample volume: steps of 0.1µl  
 Air volume: steps of 0.1µl  
 Filling speed: 1 - 100µl/sec  
 Bubble elimination: up to 15 pull up strokes  
 Viscosity delay: 0 - 15sec

### Injection

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

### Washing

Washing: pre and/or post  
 Washing with solvent: up to 15  
 Washing with sample: up to 15  
 Washing mode: every injection, vial or vial group

### Internal STD technique

IS volume: steps of 0.1µl  
 Air gap volume: steps of 0.1µl  
 Mode: 1 or 2 air gap

**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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