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).

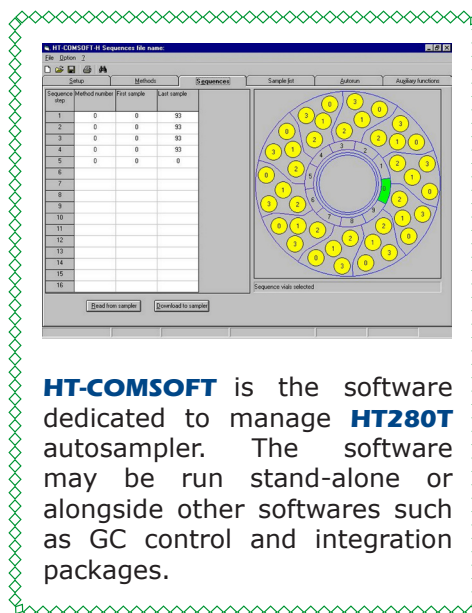## HTA - Sampling for science
www.hta-it.com

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 softwares 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 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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