

## Overbrook Autosamplers

A Common Workstation Concept Assures Efficient Operations for Sample handling and preparation

Overbrook Autosamplers provide the means to automate sample introduction. Automatic insertion provides better reproducibility and time optimization. Each of the autosamplers are based on a common look and feel, and are accurate, precise and fast.

These autosamplers provide increased lab productivity with excellent precision and reliability. Different modes control the autosampler in order to fit your needs, including integrated keypad control or PC software interface. All essential vials, syringes, caps and septa are available for smooth operation and performance.

### Universal Key Overbrook Autosampler Features

- No use of transfer lines helps to minimize carryover, active site problems and line replacement
- Sampler rotating turret keeps the inlet free for maintenance or manual injections
- Quick and simple syringe change outs

### HTA Sampler System Overview

System handling:	Syringe sampler for liquid, headspace and SPME sample
Interface:	Programmable front panel; Comsoft software interface
<b>300A Dimensions:</b>	16.5 x 20.5 x 15.7 inches [W x H x D] – 20lbs with tray
<b>310A Dimensions:</b>	10.5 x 20.5 x 15.7 inches [W x H x D] – 18lbs (no tray)
<b>200H Dimensions:</b>	16.5 x 24.4 x 15.7 inches [W x H x D] – 25lbs with tray
<b>280T Dimensions:</b>	16.5 x 24.4 x 15.7 inches [W x H x D] – 25lbs with tray
Power requirements:	115V/230V – 50/60Hz
GC compatibility:	Interfaces available for most GC models including Agilent, Varian and Shimadzu
Communication:	RS-232 and TTL
Method storage:	Up to ten different methods can be programmed and stored for all units

### Liquid Sampling

Units:	<b>HT300A, HT310A, HT280T, HT300A/LV</b>
Syringe sizes:	1, 10, 25, 50 or 100uL (0.1mL to 10mL available on HT300A/LV)
Tray capacity:	Up to 110 standard 2 or 2.5mL vials (the HT310A uses a 10 sample fixed tray)
Sample volume:	Programmable in 0.1uL steps up to syringe capacity
Fill speed:	From 1 to 100uL/sec
Pull up strokes:	Used to eliminate bubbles in injection; up to 15 strokes
Viscosity delay:	Used when injecting viscous samples; from 0 to 15 second delay
Injection speed:	Programmable from 0.1uL/sec to 100uL/sec
Injection depth:	Needle depth into inlet can be optimized for application
Injection dwell:	Programmable with up to 99 second dwell before and after injection



## Liquid Sampling (cont'd.)

Syringe cleaning:	Four solvent rinse positions with options to wash prior and after injections
Syringe washes:	Up to 15 washes with variable volume up to capacity of syringe
Internal standard:	Option to add an internal standard to each injection in syringe with air gap
Vial depth:	Needle depth into the vial variable; useful for multiphase sampling
Multiplicity:	One sampler can inject onto both inlets allowing for dual column analyses

## Headspace Sampling



Units:	<b>HT200H, HT280T</b>
Tray capacity:	Up to 40 standard 10 or 20mL headspace vials
Syringe size:	2.5mL (200H can be configured with a 5.0mL syringe)
Syringe temperature:	40 to 150C in steps of 1C
Sample volume:	Up to syringe capacity in steps of 0.01mL
Fill speed:	From 0.1 to 100mL/minute
Equilibrium delay:	Used to ensure syringe filled with sample; Up to 60sec in 1 sec increments
Injection speed:	From 0.1 to 100mL/minute
Oven capacity:	Six position incubation oven
Oven temperature:	40 to 150C in steps of 1C
Incubation time:	Up to 24 hours of incubation per sample in steps of one minute
Agitation:	Orbital shaker with options for always on, always off or on/off cycling
Shaking speed:	Variable with up to ten speeds
Syringe cleaning:	Optional gas flush to purge syringe in between injections

## SPME Sampling

Units:	<b>HT280T</b>
Tray capacity:	Up to 40 standard 10 or 20mL vials
Extraction:	Liquid or headspace; determined by variable vial depths
Oven capacity:	Six position incubation oven
Oven temperature:	40 to 150C in steps of 1C
Incubation time:	Up to 24 hours of incubation per sample in steps of one minute
Agitation:	Orbital shaker with options for always on, always off or on/off cycling
Shaking speed:	Variable with up to ten speeds

**Note:** HT280T is a single unit that combines headspace analysis, liquid sample injection and SPME (solid phase micro extraction) in one unit. The HT280T effectively combines the operations of the HT200H headspace autosampler and the HT300A liquid autosampler, with the addition of SPME capability. Changing between liquid, headspace and SPME modes is very simple. It takes about 5 minutes and there's no need to remove the sampler from the GC.



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