



AS 2M (3D) 3D Multi-Functional Headspace Autosampler

AS 2M (3D Headspace) is a static headspace autosampler as base unit and upgradable by options for liquid sample injections and SPME. AS 2M 3D Headspace Autosampler realizes static headspace technique by heated syringe injections to GC inlet ports. It is easy to use and configure onto Chromatec GC or GC-MS systems. Modular configuration suggests additional Liquid Injection option and SPME option. These can be supplied separately and installed in the autosampler easily.

Headspace syringes of SGE Diamond[™] HS series provide good performance in carryover, repeatability and operating temperature range.

Thanks to side installation of the sampler:

- · Inlet ports remain free for manual injection or service actions
- Vials tray is isolated from GC heating zones influence.

AS 2M 3D headspace autosampler has advanced errors checking and warning system:

- Wrong position detection
- Touch sensor to stop the sampler in case of any unexpected mechanical intervention
- Missing vial detection

Technical Specification:

General Specification:

Working modes:

Display GC Injection port: Control and Programming:

Headspace Mode:

Operation principle: Vial incubator capacity: Sample tray capacity: Vial size: Vial incubator temperature range: Incubator temperature setpoint resolution: Heating time: Injection interval: Headspace (standard) Liquid Injection (option), SPME (option) 2-line, LCD Up to 3 Chromatec Analytic Software

Syringe headspace sampling 4 vials (20 mL and 10 mL) 30 vials 20 mL (standard), 10 mL (option) 35 ... 170°C 0.1 °C 1 ... 999 min 1 ... 999 min

Technical Specification Sheet AS 2M (3D Headspace)



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Headspace Syringe:	
Syringe size:	1 ml (standard) or 2.5 ml (option)
Sample volume range:	0.1 – 2.5 ml
Syringe temperature settable range:	35 150°C
Syringe temperature setpoint resolution:	0.1 °C
Syringe cleaning:	Purging by inert gas from the top through the syringe barrel
Syringe purging time:	1 99 min
Needle:	Fixed in the syringe barrel, side hole needle tip
Headspace Incubator Shaker:	
Shaking method:	Orbital
Shaking speed:	Fast / Slow
Shaking cycles:	On / Off, 1 999 sec
Liquid mode (option):	
Syringe:	10 μl (standard)
, ,	0.5, 1, 5, 100, 250 μl (option)
Vial volume:	2 ml
Tray capacity:	60 sample vials (2 ml)
	4 solvent vials (4 ml)
	2 waste vials (15ml)
Injection modes:	Simple injection, Simple sandwich
	Sandwich with solvent, Sandwich with internal standard
	Multiply injection for large volume, ambient headspace
Washing modes:	Washing from vial
Sampling programmable parameters:	Top, middle and bottom air layers volumes
	Solvent or internal standard layers volume
	Sample vial depth
	Plunger aspirating and flushing speed
	Viscosity delay, Injection depth
Injection parameters:	Number of injection per vial: 199
	Pre- and post-injection delay
	Priority vial
SPME mode (option):	
Extraction:	Liquid phase / headspace vapors
Apprx. Fiber lifetime:	up to 100 cycles
Environmental Conditions:	· · · · · · · · · · · · · · · · · · ·
Ambient Operating Temperature:	from 10 to 35°C
Relative humidity:	not more than 80 %
Storage Temperature:	from -50 °C to 50°C
Power Requirements:	220 V ± 10% / 50 - 60 Hz
Power consumption:	300 W

Other specification:

Dimensions: (WxDxH);	
Weight:	

390x440x530 mm 17 kg

Safety and Certification:

Products designed and manufactured under regulations of GOST R ISO 9001 quality standard. CE certified as a part of Chromatec Crystal 9000 Gas Chromatograph At electromagnetic compatibility the chromatograph meets the requirements of IEC 61010-1

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