



AS 2M (3D)
High capacity liquid autosampler

AS 2M (3D) is a high capacity liquid autosampler for your demand in tandem with Chromatec-Crystal Gas Chromatograph. Robust design, extended 150 vials tray capability, versatile washing and injection programmable options, flexible sequence planning opportunities, tray cooling / heating option grant unlimited opportunities for accurate and precise GC & GC-MS applications.

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 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:	Liquid Injection
Display	2-line, LCD
GC Injection port:	Up to 3
Repeatability	RSD < 0.3% (by Area, C10 – C16 in C8, FID)
Minimum injection time	100 ms
Control and Programming:	Chromatec Analytic Software

Syringe and tray:

Syringe:	10 µl (top washing, standard) 0.5, 1, 5, 10, 100, 250 µl (option)
Vial volume:	2 ml
Tray capacity:	150 sample vials (2 ml) 4 solvent vials (4 ml) 2 waste vials (15ml)
Cooling / heating option	Cooling & Heating for tray and syringe

Sampling:

Sampling modes: Simple injection, Simple sandwich
 Sandwich with solvent, Sandwich with internal standard
 Multiply injection for large volume, ambient headspace

Sampling programmable parameters: Top, middle and bottom air layer volume (min 0.1 µl)
 Solvent or internal standard volume
 Sample vial depth, Bubble elimination
 Plunger aspirating and flushing speed
 Viscosity delay

Injection:

Number of injection per vial 1...99 s
 Injection depth Programmable
 Injection speed Programmable
 Pre- and post-injection delay 0...99 s
 Priority vial / sequence Yes
 Repeat injection during run cycle Injection to next inlet at the appointed time

Washing:

Washing modes: Top washing
 Washing from vial

Washing from vial parameters 4 solvent vials (4 ml)
 Single or double solvent washing
 Pre- and post-injection solvent washing, sample washing
Solvent flows from the top through the syringe barrel and needle, minimizing carryover, and risk of plunger seizing
 Top washing parameters Available for 10 µl syringe unit
 30ml solvent vial capacity
 Pumping pneumatic required
 Washing time – up to 60 s
 Pre- and post-injection solvent washing

Cooling / heating option (option):

Description: *Cooling & Heating for tray and syringe. Includes: External cooling / heating unit with pump for coolant circulating, Temperature-controlled sample tray located in the autosampler. Easy to install by User.*

Tray capacity: 70 vials
 Temperature range: 4 – 60 °C

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: 100 W

Other specification:

Dimensions: (WxDxH); 390x440x530 mm
 Weight: 13 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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