



Autosampler AS-2M

Datasheet

Product No:

400-0201	– AS-2M (A)
400-0202	– AS-2M (A51)
400-0203	– AS-2M (B)

Type	Rotating carousel
Vial volume	2 ml (standard), 4 ml (optional)
Carousel Capacity	Standard: 28 (24 samples + 4 service) - for 2 ml sample vial Optional: 18 (14 samples + 4 service) - for 4 ml sample vial
Solvent	30ml (top washing, for model # 400-0203) A + B solvents (2x4 ml, washing from vial)
Waste	4x4 ml (top washing, for model # 400-0203) 2x4ml (washing from vial)
Syringe	10 µL (standard) 0.5; 1; 5, 10, 100, 250, 500 µL syringes available by order
Injection volume range	0.01 – 500 µL
Min Injection time	0.1 sec
Injection port	1
Max Number of Autosamplers on the GC	2
Repeatability	RSD <0.3% (area, C10-C16 in octane sample mix)
Compatibility	GC Chromatec-Crystal series

Key features

- Automatic injection of liquid and ambient headspace samples
- Simple design and moderate price make AS-2M a workhorse in your lab
- 2 syringe washing modes, 4 injection modes and other parameters available for flexible operating mode to optimize your workflow
- Top washing mode elongates lifetime of 10 µL syringe especially for “hard” samples available for 400-0203.
- Automatic identification of the syringe in autosampler
- Two Autosamplers can be mounted on the same GC to increase productivity of your lab.
- Glass window for safety operation prevents access to moving parts.
- Intuitive interface and voluntary setting capabilities allow developing flexible sequences in vials order and operating conditions.

Technical specifications

Sampling modes	Simple injection Simple sandwich Sandwich with solvent Sandwich with internal standard
Sampling programmable parameters	Top, middle and bottom air plug volumes Solvent or internal standard plug volume Sample vial depth Plunger aspirating and flushing speed Viscosity delay Sample vial depth Injection depth
Injection parameters	Injection per vial (1...99) Sample rinse (max 10) Injection depth (2...36mm) Pre- and post-injection delay Priority vial
Injection Volume Range, µL:	
for syringe 0.5 µL	0.01 – 0.5
for syringe 1 µL	0.02 – 1.0
for syringe 5 µL	0.05 – 5.0
for syringe 10 µL	0.1 – 10.0
for syringe 100 µL	1.0 – 100.00
for syringe 250 µL	2.5 – 250.0
for syringe 500 µL	5.0 – 500.0
Volume Set Point Resolution, µL:	
for syringe 0.5 µL	0.01
for syringe 1 µL	0.02
for syringe 5 µL	0.05
for syringe 10 µL	0.1
for syringe 100 µL	1.0
for syringe 250 µL	2.5
for syringe 500 µL	5.0
Washing	
Washing modes available	Washing from vial Top washing (available for 400-0203) Pre- and post-injection solvent washing, sample washing less than 10e-5 (methanol, A+B solvent vials)
Carryover	less than 10e-5 (methanol, A+B solvent vials)
<u>"Top washing" mode parameters (available for 400-0203)</u>	
For syringe unit	10 µL
Solvent	30 ml
Waste	16ml (4x4ml vials)
Time washing, sec	Up to 60
Pumping	Pneumatic (0.17-0.2 or 0.4-0.6 MPa)
<u>Washing mode "from vial" parameters</u>	
For syringes and syringe unit	0.5; 1.0; 5.0; 10.0 µL
Solvent	8ml, up to 2 vials (4ml. A, B solvents)
Waste	8ml (2x4ml vials)
<u>Washing by air parameters</u>	
For syringes	100; 250; 500
Rinse cycles	Up to 10
Control	Software Chromatec Analytic
Data communication	LAN
Power supply	115 – 264 V
Power consumption	60 W
Dimensions (WxDxH)	220x275x450
Weight	5.5 kg

Ordering info
Main units

Part No	Item Description	Note
400-0201	Autosampler AS-2M (A)	Autosampler supplied with 10 µL syringes, 43 mm needle length. Most general applications
400-0202	Autosampler AS-2M (A51)	Autosampler supplied with 10 µL syringes, 51 mm needle length. Recommended for on-column
400-0203	Autosampler AS-2M (B)	Autosampler supplied with 10 µL syringes units, 51 mm needle length, top washing mode available. Durable syringe unit with top washing mode even for hard samples. Washing from vial also available.

Autosampler 400-02XX compatible with Chromatec-Crystal GCs manufactured after 2022 January. For older Chromatec GC upgrade of inlet covers and top GC cover is required.

3 syringes (or syringe units) supplied in the shipping kit on default. Additional types of syringes with appropriate syringe adapters should be ordered separately.

Optional items

Part No	Item Description	Note	Cross ID
Liquid injection, standard 43 mm syringe			
540-1102	Syringe unit 10 µL (top washing)	43mm NDL, for 400-0203	4.464.114
540-2019	Syringe adapter (for 10 µL syringe unit)	top washing, for 400-0203	6.152.020
540-1110	Syringe 10 µL	43mm NDL, washing from vial	002821 SGE
540-2010	Syringe adapter (for 10 µL syringe)		6.152.018
540-1111	Syringe SGE 0.5 µL	43mm NDL, washing from vial	000410 SGE
540-2011	Syringe adapter (for 0.5 µL syringe)		6.152.018-01
540-1112	Syringe SGE 1 µL	43mm NDL, washing from vial	000610 SGE
540-2012	Syringe adapter (for 1uL syringe)		6.152.018-02
540-1115	Syringe SGE 5 µL	43mm NDL, washing from vial	001821 SGE
540-2013	Syringe adapter (for syringes 5 µL)		6.152.018-03
Ambient headspace gas tight syringes and accessories			
540-2112	Nut (for inlet septum, 0.8mm hole)	To gastight syringe	6.482.026-01
540-1121	Syringe 100ul gastight	Side hole needle	4.464.084
540-2016	Syringe adapter (for syringe 100 µL)	Gas tight syringe	6.152.021
540-1122	Syringe 250ul gastight	Gas tight syringe	4.464.102
540-2017	Syringe adapter (for syringe 250 µL)	Gas tight syringe	6.152.021-01
540-1125	Syringe 500ul gastight	Side hole needle	4.464.127
540-2018	Syringe adapter (for syringe 500 µL)	Gas tight syringe	6.152.021-02
Liquid injection, syringe with 50x0.47mm needle			
540-2030	Needle holder	to SYR 5, 10 µL/51 mm NDL	6.119.019
540-1151	Syringe 10uL (50x0.47mm NDL)		4.464.119
540-2014	Syringe adapter (for 10 µL syringe / 51mm NDL)	add 540-2030	6.152.019
540-1155	Syringe 5uL (50x0.47mm NDL)		4.464.123
540-2015	Syringe adapter (for 5 µL syringe / 51mm NDL)	add 540-2030	6.152.019-01
Others			
610-2404.4	Vial (4ml, 4/pk, solvent vial with diffusion cap)		5.887.060

Note: Syringes to be ordered separately

Upgrade kits

Part No	Item Description	Note	Cross ID
540-2901	Washing unit	Upgrade from (A, A51) to (B). Order separately: Syringe adapter 540-2019 and syringe units 540-1102	6.457.291
540-2902	Carousel (for 4 ml vials)	Capacity 14+4 vials of 4 ml. Vials not included	6.212.024

Information and technical specification in this publication are subject to change without notice.

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