

AZURA Autosampler AS 6.1L

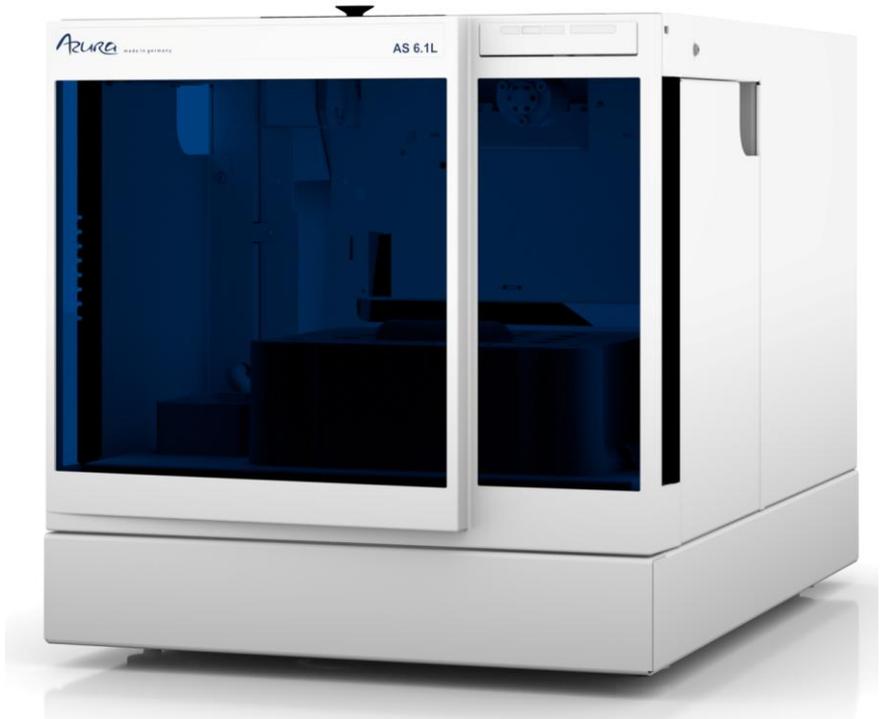
The Autosampler AS 6.1L can inject from up to 768 positions when equipped with microtiter plates (either high or low formats) or from up to 108 standard 2 ml sample vials.

Sample carryover is significantly minimized thanks to a highly-effective interior and exterior needle wash procedure.

This autosampler is also fast and flexible: one complete sample injection cycle takes less than one minute, including needle wash.

Three different injection modes are supported; "full loop filling" (highest precision and reproducibility), "partial loop filling" (variable volumes, e.g. for dilution series) and "µl pickup" (loss-free injection of extremely small sample volumes), allowing the user to optimize sample usage.

The headspace pressure function prevents bubbles from forming in the vial during sample uptake. Precolumn derivatization is supported.



Key features

- 700 bar
- 0.1 to 10000 µl injection volume High sensitivity
- PASA (pressure-assisted sample aspiration)
- ILD (intermediate loop decompression)

Specifications

(All technical data is subject to change without notice.)

Sample injection	
Vial/plate dimensions	max. plate/vial height: 47 mm (incl. septa or capmat)
Injection volume range	1–10000 µl programmable
Sample loop	10 ml
Dispenser syringe	2500 µl

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Headspace pressure	built-in compressor, only for sample vials with septum
Switching time inj. valve	< 100 ms
Piercing needle precision	± 0.6 mm
Sample tray cooling	none
Vial detection	missing vial/well plate detection by sensor
Needle wash	programmable: wash between injections and wash between vials
Wetted materials	stainless steel (SS316), Tefzel®, Vespel®, glass, PTFE, PEEK
Injection modes	partial loop filling
Injection precision	RSD (Relative Standard Deviation): full loop injection: <0.3% partial loop injection at injection volume >5 µl: <0.5% microliter pickup injection at an injection volume >5 µl: <1.0%
Sample carryover	< 0.1 % with standard needle wash, RSD ≤ 1.0 % for partial loop filling, injection volumes >10 µl upto 50 % of installed sample loop
Injections per vial	max. 9 injections
Injection cycle time	minimum 7 s from the same vial, 14 s from different vials; < 60 s for >100 µl sample injection in all injection modes, incl. 300 µl needle wash
Analysis time	max. 9 h, 59 min, 59 s
Communication	
Interfaces	LAN, analog
Control	Ethernet (LAN)
Inputs	2 programmable TTL inputs (next injection, freeze, stop)
Outputs	1 programmable relay output (inject marker, auxiliary, alarm)
General	
Power supply	95–240 V AC
Dimensions	377 x 300 x 510 mm (width x height x depth)
Weight	30 kg
Ambient conditions	temperature range: 10–40 °C; humidity: 20 - 80%

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Product Details

AAA00AA	Standard version of a fast and very versatile analytical HPLC autosampler, 700 bar, 0.1-10000 µl injection volume
AAA10AA	Standard version of a fast and very versatile analytical HPLC autosampler, 1240 bar, 0.1-10000 µl injection volume
AAA01AA	Cooling/heating version of a fast and very versatile analytical HPLC autosampler, 700 bar, 0.1-10000 µl injection volume
AAA11AA	Cooling/heating version of a fast and very versatile analytical HPLC autosampler, 1240 bar, 0.1-10000 µl injection volume
AAA20AA	Analytical HPLC autosampler with biocompatible flow path
AAA21AA	Analytical HPLC autosampler with biocompatible flow path and sample cooling
AAA40AA	Preparative HPLC autosampler, 10 ml injection volume
AAA31AA	Preparative HPLC autosampler with biocompatible flow path and cooling option
AAA41AA	Preparative HPLC autosampler with sample cooling