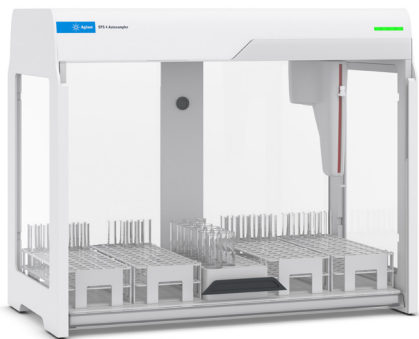


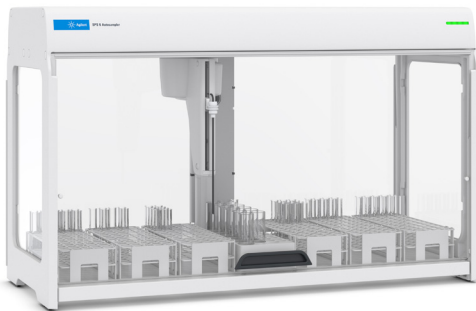


Agilent SPS 4 and SPS 6 Autosamplers

Innovative. Robust. Productive



SPS 4 autosampler for everyday high-throughput laboratories



SPS 6 autosampler for higher-capacity and longer unattended runs

Introduction

The Agilent SPS 4 and SPS 6 are high-performance autosamplers for Agilent atomic spectroscopy applications. Designed to meet the needs of both everyday high-throughput and higher-capacity laboratories requiring fast, reliable autosamplers that are also compact, quiet, easy to use, and affordable.

The SPS 4 is a four sample rack autosampler suitable for everyday high-throughput laboratories using AAS, MP-AES, ICP-OES or ICP-MS for up to 360 samples.

The SPS 6 is a six sample rack autosampler with 50% more capacity than the SPS 4, offering up to 540 samples for laboratories using ICP-OES or ICP-MS. It is ideal for laboratories looking for higher-capacity, longer unattended runs and using the Advanced Dilution System (ADS 2) autodilutor.

Built around an innovative dual-pillar gantry design that supports the mechanical components between two rigid pillars, the SPS autosamplers provide improved accuracy and precision, high speed, ease of access, and corrosion resistance.

With the integrated environmental enclosure (optional), the SPS autosamplers offer maximum sample integrity while protecting your laboratory environment from hazardous sample vapors, all without compromising a millimeter of valuable bench space. In addition, access to the power switch, peristaltic pump, and all electrical and communications ports are outside the environmental enclosure for easy access and protection from corrosion from samples contained inside.

Uniquely Agilent in design and compatibility

- Modern industrial design combines well thought out robustness and performance characteristics with a sleek, eye-catching profile that coordinates with Agilent atomic spectroscopy instruments.
- Heavy-duty, powder-coated aluminum frame for light weight, maximum rigidity and corrosion resistance.
- User programmable high-speed probe arm assembly and optimized movement for fastest sample-to-sample speed.
- USB plug-and-play connectivity allows fast and easy setup.
- Integrated spill tray contains accidental spills, protecting the laboratory bench and simplifying cleanup.
- Standards rack and rinse port are centrally located for the fastest access and maximum throughput.
- All electronic and mechanical components are located in top gantry, away from liquid spills, for long life and easy maintenance. Purge port with the option to purge the gantry with inert gas for enhanced corrosion protection.
- The SPS 4 is compatible with Agilent's full range of atomic spectroscopy instruments including AAS, MP-AES, ICP-OES and ICP-MS. The SPS 6 is compatible with ICP-OES and ICP-MS only.



The SPS 4 is compatible with Agilent's comprehensive atomic spectroscopy portfolio.



Agilent SPS 4

Agilent SPS 6

The SPS 6 is compatible with Agilent ICP-OES and ICP-MS only.



Agilent AA



Agilent MP-AES



Agilent ICP-OES



Agilent ICP-MS



Agilent ICP-QQQ

Integrated environmental enclosure option protects your samples and your laboratory environment

- Maintain maximum sample integrity by protecting samples from the lab environment.
- Protect operators and laboratory instrumentation from corrosive sample vapors.
- Fully integrated environmental enclosure takes up no extra valuable bench space. This allows the SPS 4 to be at least 25% smaller than other four sample rack autosamplers in its class.
- When the environmental enclosure is fitted, sample visibility remains unrestricted, as well as sample access from the front when the door is in the raised position.
- Vertically sliding front access door can be fixed open for easy access to samples.
- Electrical and plumbing connections remain outside the environmental enclosure for easy access with the cover in place.
- Environmental Enclosure Kit includes a 50 mm (2 in) extraction air duct fitting that can be fitted to either side of the autosampler as needed. The kit also includes 5 meters of flexible PVC exhaust ducting.



SPS 4 autosampler shown with optional integrated environmental enclosure. Front cover shown in fixed open position for easy access to samples.

Dual-wash reservoir option eliminates potential carryover

- Optional dual-port wash reservoir for ultra-trace applications or applications requiring two different rinse chemistries.

Three-channel peristaltic pump for ultimate flow-through rinse flexibility

- Simultaneously pump two different rinse solutions (in conjunction with the optional dual wash reservoir).
- Third channel still allows for a pumped drain when a gravity drain is not an option.

Multiple probe size options for a diverse range of applications

- A range of carbon fiber–reinforced fluoropolymer probes suit all applications from microvolume sampling to high-speed discrete sampling.
- Integrated nebulizer/probe assembly option for ultra-clean applications.
- Variable probe speed in 3 axes for the ultimate performance with all sample types.
- Intelligent probe acceleration and deceleration permits high speed while minimizing spattering.
- Programmable probe depth for sedimentary or separated layer samples.



There are multiple probe sizes available for both the SPS 4 and SPS 6 to suit a diverse range of applications.

Specifications

Dimensions		SPS 4 Autosampler	SPS 6 Autosampler
	Width	600 mm (23.6 in)	820 mm (32.8 in)
	Depth	320 mm (12.6 in)	320 mm (12.6 in)
	Depth including peristaltic pump	363 mm (14.3 in)	363 mm (14.3 in)
	Height	510 mm (20.1 in)	510 mm (20.1 in)
	Weight	15 kg (33.1 lbs)	18 kg (39.7 lbs)
Sample Capacity		4 x Belart 'No-Wire' racks with outside dimensions 246 x 104 x 64 mm (9.7 x 4.1 x 2.5 in): 360 x 13 mm tubes (4 x 90 position racks) 240 x 16 mm tubes (4 x 60 position racks) 160 x 20 mm tubes (4 x 40 position racks) 96 x 25 mm tubes (4 x 24 position racks) 84 x 30 mm tubes (4 x 21 position racks)	6 x Belart 'No-Wire' racks with outside dimensions 246 x 104 x 64 mm (9.7 x 4.1 x 2.5 in): 540 x 13 mm tubes (6 x 90 position racks) 360 x 16 mm tubes (6 x 60 position racks) 240 x 20 mm tubes (6 x 40 position racks) 144 x 25 mm tubes (6 x 24 position racks) 126 x 30 mm tubes (6 x 21 position racks)
Microtiter Capacity	ICP-OES* and ICP-MS only	8 racks of 96 well-plates	
Standards Racks		5 x position ~63 mm diameter bottles (i.e. 250 ml, 62 mm diameter x 135 mm high) (default for ICP-MS) 34 x position rack (12 x 30 mm tube + 22 x ~16-17 mm tubes) (Default for ICP-OES, MP-AES and AAS)	5 position ~63 mm diameter bottles (i.e. 250 ml, 62 mm diameter x 135 mm high) (default for ICP-MS) 34 x position rack (12 x 30 mm tube + 22 x ~16-17 mm tubes) (default for ICP-OES)
Maximum Tube Height		150 mm	
Probe Options	Carbon Fibre reinforced fluoropolymer probes	0.25 mm i.d. (required for microsampling) 0.5 mm i.d. (default for ICP-MS) 0.8 mm i.d. (default for ICP-OES, MP-AES and AAS) 1.0 mm i.d. (required for AVS and ADS 2) 1.2 mm i.d.	0.25 mm i.d. (required for microsampling) 0.5 mm i.d. (default for ICP-MS) 0.8 mm i.d. (default for ICP-OES) 1.0 mm i.d. (required for AVS and ADS 2) 1.2 mm i.d.
Rinse Port Flow Rate	Programmable, up to 50mL/min depending on pump tube diameter		
Communication	USB 2.0 (full speed) virtual com port with plug-and-play capability.		
AUX Interface	RS485 for future upgradability to external device control.		
Power requirements	100–240 VAC, 47–63 Hz, 1.5 A		
Built-in diagnostics	The SPS autosamplers include a row of four LEDs on the front panel that indicate the operational or error status of the autosampler.		
Purge Port for electronics			Standard
Autosampler Trolley			Optional
Cover Kit			Optional
Dual Port Rinse			Optional
Pumped Drain			Optional
Rinse and Waste Bottle Kit			Optional
Organics Rinse Tubing Kit			Optional

* Requires ICP Expert 7.7.3 or above for microtiter

Supported instruments

	SPS 4	SPS 6
AA	240FS, 280FS, 55B (computer controlled) Requires SpectrAA software version 5.3 or above	-
MP-AES	4100, 4200, 4210 Requires MP Expert software version 1.5.1 or above for 4100 and 4200 and version 1.6 or above for 4210	-
ICP-OES	5100, 5110, 5800, 5900 Requires ICP Expert software version 7.1 or above Well plate compatibility requires ICP Expert software version 7.7.3 or above	5100, 5110, 5800, 5900 Requires ICP Expert software version 7.7.3 or above
ICP-MS	7700, 7800, 7850, 7900, 8800, 8900 Requires ICP-MS MassHunter software version 4.2 or above	7800, 7850, 7900, 8800, 8900 Requires ICP-MS MassHunter software version 5.4.1 or above



Promising 10 Years of Value

From the date you purchase an Agilent autosampler, Agilent guarantees at least 10 years' use or residual-value credit towards a replacement model upgrade. Our Value Promise maximizes your return-on-investment by ensuring that your purchase is safe.

Genuine Agilent supplies for flexible sample handling and maximum productivity

Agilent supplies for the SPS 4 and SPS 6 autosamplers are designed to give flexibility in sample handling and maintain the high performance of your system. With a wide range of sample racks and vessels supporting small or large sample volumes, probe options and interface supplies, we can help keep your lab running at maximum productivity.

Learn more:

www.agilent.com/chem/AtomicSupplies

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This information is subject to change without notice.

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