

# AIM4000 Autosampler

## Setting the bar in innovative autosampler design



The AIM4000 represents the culmination of over 25 years of liquid autosampler design expertise and field-proven performance. Designed to automate the introduction of large batches of liquid samples into an analyzer, the AIM4000 enhances reproducibility, throughput, and overall performance.

AIM™ Autosamplers boast minimal maintenance requirements, along with an extended operational life. Known for their reliability and versatility, AIM™ Autosamplers can be integrated with various analytical techniques, including atomic spectroscopy, flow injection analysis, segmented flow analysis, total organic carbon analysis, UV-Vis spectrophotometry, ion chromatography, and more. From water to jet fuel analysis, AIM™ Autosamplers become an integral component of your product portfolio, enhancing your analyzer's marketability and performance.

### Scope and Application

This compact autosampler has been specifically designed to function with a wide variety of vials and sample types commonly used in analytical laboratories across industries such as environmental analysis, geochemistry testing, semiconductor quality control, water quality assessment, food and beverage testing, and many others.

The AIM4000 can be completely tailored to your application and branding requirements including:

- A range of sample probes, wash reservoirs, sample, and standards racks.
- Custom labelling/badging.
- Custom packaging of the autosampler.
- Custom accessories and modifications.

### Key Benefits

- Can be adapted to different application requirements.
- Easy to interface with your host analyzer.
- Reliable and continuous operation.
- Robust design to cope with intensive use or harsh conditions.
- Free of any user maintenance or consumables.
- High quality at an affordable price.
- Designed to minimize contamination.

### Key Features

- Compact footprint which maximizes available area for samples and standards.
- Solid robust assembly with high corrosion resistance and electronics elevated well away from liquids and dense acid fumes.
- Offers a shorter probe line length compared to the linear XYZ design, for faster washout and sampling.
- Standards racks and wash station centrally located to minimize probe travel between samples and wash.
- Proven "pirouette" design, with over 20,000 units installed.
- Optional integrated protective sampler cover that takes no additional space, is easy to fit and, cost effective.
- Optional three channel wash pump for feeding clean wash solution to either a single or dual port wash station.

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## Technical Specifications

### Specifications

<b>Dimensions</b>	600mm (23.6") L x 317mm (12.5") D x 510mm (20.1") H; D 363mm (14.3") with wash pump installed
<b>Weight</b>	Approx. 15 kg (33.1lbs)
<b>Rack capacity</b>	<ul style="list-style-type: none"><li>• 4 sample racks (up to 360 samples) or 8 x 96 well microtitre plates</li><li>• 1 standards rack (either 5 well or 34 well)</li></ul>
<b>Maximum vial height</b>	150mm
<b>Input Power</b>	100-240V, 47-63 Hz, 1.5A
<b>Communications</b>	<ul style="list-style-type: none"><li>• Host port: USB (Type B connector)</li><li>• Auxiliary port: RS485 (DB9 Male connector)</li><li>• Relay contacts: up to 3 available</li><li>• I/O connections: up to 3 available</li></ul>
<b>Probe travel time from sample to wash</b>	Adjustable from ~3 to more than 10 seconds
<b>Probe tip accuracy</b>	+/- 1.5mm
<b>Probe tip precision</b>	+/- 0.5mm

