aim|Lab
Automation Technologies

Front-end automation for analytical instruments

OEM Liquid Automation

AIM1250

Traditional XYZ autosampler

The AIM1250 MKIII is a random access XYZ autosampler that accommodates up to 270 samples and 20 standards. A proven performer – the AIM1250 has recently been updated with new electronics and drive motors to provide even more functionality.

The AIM1250 has the flexibility to be expanded in capability in both the x and y directions. The unit can be raised in height to sample from tall tubes. A range of optional accessories are available to increase performance - such as an in-built controllable wash pump for introducing fresh wash solution to the wash station or a travelling rinse station to provide 20% higher sample throughput.

Technical Specifications

Dimensions
430mm (16.9") W x 415mm (15.9") D x 315mm (12.4") H

Weight
9kg (20lbs)

Sample capacity
3 sample racks and 1 standards rack

Maximum vial height
100mm (standard) - 150mm (raised)

Sample Racks

90 samples x 13mm OD	60 samples x 16mm OD
40 samples x 20mm OD	24 samples x 25mm OD
21 samples x 30mm OD	

Communication
1 x RS232, 1 x RS232/485, 4 relay contacts, 8 digital inputs

Certification
International Standard IEC61326:1997 for EMC
International Standard IEC61010:2001 for safety

Warranty
15 months

AIM3200

Fast, compact autosampler

The AIM3200 autosampler is the smallest model in the AIM3000 family of autosamplers. The AIM3200 uses a unique "Pirouette" motion to access all sample positions. This novel approach greatly simplifies the engineering design creating faster and more efficient probe movements and a greater overall reliability.

The AIM3200 has capacity for 2 sample racks and 1 standards rack. Like all AIM3000 autosamplers, the AIM3200 offers complete programming flexibility including variable probe speed and user configurable flash RAM. It is ideal for those users who are looking for an elegant but high performance solution for processing small to medium sample numbers.

Technical Specifications

Dimensions
265mm (10.6") W x 415mm (16.4") D x 435 mm (17.1") H

Weight
10Kg (22lbs)

Sample capacity
2 sample racks and 1 standards rack
Up to 180 samples and 10 standards

Maximum vial height
125mm

Sample Racks

90 samples x 13mm OD	60 samples x 16mm OD
40 samples x 20mm OD	24 samples x 25mm OD
21 samples x 30mm OD	96 well microtitre trays

Communication
1 x RS232, 1 x RS232/485, 1 relay contact
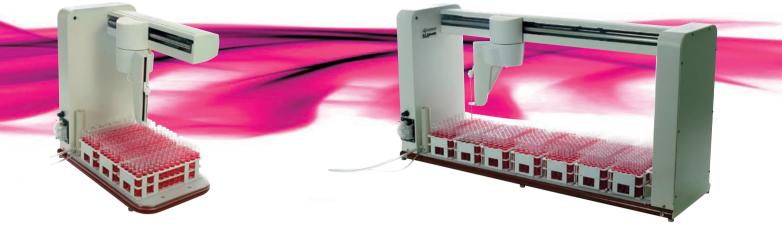
Certification
International Standard IEC61326:1997 for EMC
International Standard IEC61010:2001 for safety

Warranty
15 months

AIM3300

AIM3600

Flexible autosampler

The AIM3300 autosampler is the mid-range model in the AIM3000 family. It accommodates 3 sample racks and 2 standards rack with sample tubes up to 150mm in height. The working platform can be easily modified to accommodate customized sample racks. The AIM3000 can control up to 4 external devices – including the optional in-built variable speed wash pump.

Various sample probes offer adaptability to different regimes. A septum piercing probe, for example, can be used to sample septum capped vials which may be required for trace analysis. Alternatively, an ergonomically designed sample cover is available to encase the autosampler and provide a controlled environment to protect sample integrity.

High capacity autosampler

The AIM3600 autosampler is the high capacity model in the revolutionary AIM3000 family of autosamplers. The AIM3600 has a long narrow footprint with the capacity for up to 7 sample racks and 2 standard racks, enabling up to 630 samples to be processed in a single run. Like all AIM3000 systems, the AIM3600's performance variables - such as probe speed, how deep the probe descends into a sample vial and type of sample racks - are completely user configurable. The location of the wash station and standards racks can be set to a number of alternative positions.

The AIM3000 family never needs aligning and are able to handle the demands of working with corrosive samples and organic fluids.

Technical Specifications

Dimensions
285mm (11.2") W x 490mm (19.3") D x 510mm (20.0") H

Weight
13.5Kg (30lbs)

Sample capacity
3 sample racks and 2 standards racks
Up to 270 samples and 22 standards

Maximum vial height
150mm

Sample Racks

90 samples x 13mm OD	60 samples x 16mm OD
40 samples x 20mm OD	24 samples x 25mm OD
21 samples x 30mm OD	96 well microtitre trays

Communication
1 x RS232, 1 x RS232/485, 4 relay contacts, 8 digital inputs

Certification
International Standard IEC61326:1997 for EMC
International Standard IEC61010:2001 for safety

Warranty
15 months

Technical Specifications

Dimensions
1000mm (39.4") L x 290mm (11.4") W x 510mm (20.0")H

Weight
22kg (48.4lbs)

Sample Capacity
7 sample racks and 2 standards racks
Up to 630 samples and 22 standards

Maximum Vial Height
150mm

Sample Racks

90 samples x 13mm OD	60 samples x 16mm OD
40 samples x 20mm OD	24 samples x 25mm OD
21 samples x 30mm OD	

Communication
1 x RS232, 1 x RS232/485, 4 relay contacts, 8 digital inputs

Certification
International Standard IEC61326:1997 for EMC
International Standard IEC61010:2001 for safety

Warranty
15 months

Automated sample handling processes for laboratory applications where reliability and performance are essential.

Aim Lab specialises in the development and manufacture of liquid automation systems for the international laboratory market.

Partnering with leading scientific instrument manufacturers has resulted in our systems being installed in over 4000 labs around the world.

This has taught us that it takes more than just designing and manufacturing a quality product in an OEM relationship.

We recognise that factors such as on-time deliveries, loaner units, product badging and colors, responsiveness to technical support, training and ready access to support services are just as important as product quality in any relationship.

Aim Lab's automated techniques include aliquoting, dilution, dispensing, labelling, capping, de-capping, image analysis, sorting, racking and tracking.

Call on Aim Lab's experience to:

· Enhance your existing Autosamplers to improve their efficiency and effectiveness.

· Redesign your current sample handling modules to extend performance and/or reduce production costs.

· Develop customised accessories to allow you to expand into new applications and market opportunities.

· Develop your sample handling module in parallel with your analyser design and release both to market faster.

· Manufacture your sample handling solution for delivery to you on time, on quality and at a fixed cost.

PathFinder 350S Sorter

The PathFinder 350S Sorter is an open, fully automated, stand-alone system that is designed to manage pre- and post-analytical sorting, storing and tracking in a pathology laboratory.

The PathFinder 350S Sorter bench top unit is easy to install, easy to learn and easy to use on a day-to-day basis. With simple, robust functionality the PathFinder 350S Sorter can help laboratories address many of the challenges associated with patient sample management.

aim|Lab
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