



aim|Lab
Automation Technologies

PATHFINDER 450S SORTER

YOUR ANSWER TO SAMPLE TUBE SORTING, STORING AND TRACKING

PathFinder 450S Sorter

The PathFinder 450S is a bench-top robotic workstation for managing pre and/or post analytical sorting, storing and tracking of sample tubes in a laboratory. When key sorting decisions are required, the PathFinder 450S will give you the peace of mind that your samples are being sent to the correct destination automatically and without mistakes.

The instruments compact size allows it to be easily accommodated anywhere in the lab making it ideally suited to solve your sorting bottlenecks. You'll be amazed with the overall improvement in sample handling and ultimately the workflow in the lab. What's more, the PathFinder 450S' size and flexibility in configuration makes tube automation accessible to small and medium laboratories.

The PathFinder 450S processes samples at up to 450 tubes per hour. Tubes are sorted into various destination racks based on the tubes barcode identification. Racks can be loaded and unloaded at any time without stopping the instrument and impacting the throughput.

With simple, robust functionality, the PathFinder 450S can help laboratories address many of the challenges associated with sample management.



Tubes in ID carousel

Easy-to-Use Software

All the operator needs for routine operation is displayed through the Graphical User Interface which provides the current sorting and instrument status via colored graphical displays, intuitive icons and message windows. More detailed information can be easily obtained if required by delving down a level in the software or in the case of diagnostics, through pop-up help menus.

It is easy to search for the last rack location for a specific tube processed by the PF450S through the in-built database either via the instruments touch screen or any other computer screen on your network.

Statistical reports and graphs on the number of tubes processed or how they have been distributed over a selectable time period can be generated on demand. In fact, the instrument status along with the ability to access productivity reports can also be accessed remotely through the network or via the Internet.



Applications

- Distribution of samples to different departments or analysers on receipt
- Prioritised recursive sorting of samples to different analysers, for example, in a hematology department
- Auditing test panel completeness prior to storage
- Inter and intra lab sample tracking
- Registering receipt of incoming samples

Flexible

- Can be configured to pick from or place directly into analyser racks
- Handles all standard sample collection tubes
- Quick layout changes for different applications
- Colour coded sample racks for ease of identification
- Choice of different languages

Lab Automation Made Easy

STEP 1

A rack of sample tubes is loaded onto the PathFinder 450S.

STEP 2

Each tube is sequentially transferred to the ID carousel where it's barcode is read and sent to the LIS.

STEP 3

The LIS confirms the receipt of the specimen tube and relays the sorting destination based on the processing priority of the requested tests.



STEP 5

Repeat loading until all tests are complete after which the tube is placed into a rack for storage.

STEP 4

The tube is placed in one of several destination racks for analysis or storage.

Key Benefits

- Improves sample Turnaround Time
- Frees up valuable lab staff for more productive tasks
- Reduces manual sample handling errors
- Avoids missing test orders
- Eliminates lost or misplaced tubes
- Simplifies training for new staff
- Improves workflow and efficiency

The PathFinder Family

Along with the PathFinder 450S Sorter, Aim Lab Automation Technologies offers a family of laboratory automation solutions from the PathFinder 900 Plus, a fully automated multi-functional Tube Management system to the benchtop PathFinder 350A for post analytical capping and sorting of sample tubes or the PathFinder 350D for decapping and sorting tubes into analyser racks.

One or more PathFinder systems (either 450S, 350D or 350A) can integrate with the PathFinder 900 Plus to provide a network of systems enabling error free sample prioritizing and tracking within the same site or between laboratories which share a common LIS system.



PathFinder 350A Archiver



PathFinder 350D Decapper Sorter



PathFinder 900 Plus

Learn more about the range of instruments in the PathFinder family.

<https://www.aimlab.com/products/pathology-automation>

PathFinder 450S Sorter Specifications

THROUGHPUT

Up to 450 tubes per hour

PRESENTED TUBES

Handles most standard sample collection tubes from major tube manufacturers

Diameter: 12 - 16mm

Height: 63 - 120mm

RACK TYPES

PathFinder coloured racks - 20 well (PF20), 50 well (PF50)

Choice of rack adapters for different analyser racks

Stat/Error rack

SORTING AREA CAPACITY

Up to 266 samples

LIS INTERFACE

CLSI/NCCLS LIS1-A (ASTM1381-95) and LIS2-A (ASTM1394-97), bi-directional (TCP/IP or File Transfer)

DIMENSIONS

100cm (40") L x 45cm (18") W x 52cm (21") H

COMBINED WEIGHT

31kg (69lbs) - Sorter module, specimen tray

POWER SUPPLY

100 - 240VAC, 50 - 60Hz, 280W

OPERATING TEMPERATURE RANGE

10 °C - 35 °C (50 °F - 95 °F)

UTILITIES REQUIRED

Power

Network point

Compressed Air Supply

CERTIFICATION

Designed and manufactured in accordance with ISO13485

Meets 2014/30/EU, 2014/35/EU, REACH, RoHS.



Aim Lab Automation Technologies Pty Ltd
Delivering Confidence

International Head Office
15 Lisgar St, Virginia Qld 4014, Australia
P: +61 7 3897 1600 F: +61 7 3216 2499
E: aimlab@aimlab.com
www.aimlab.com