

SampleStore™ Ambient to -20°C Automated Storage System

Exceptional Flexibility & Highly Configurable Modules

For over 20 years, Brooks has been the global leader in high density automated sample storage.

- ✔ Preferred storage partner of choice, supporting 9 out of 10 top biopharma companies
- ✔ A range of flexible storage temperatures from room temperature to -20°C
- ✔ Fully configurable modules allow a wide range of applications: capacity, throughput and labware
- ✔ Adaptable storage automation from single labware type to multiple formats: tubes, vials, or plates
- ✔ Versatile picking capability including standard SBS 96-way tubes, SBS format micro plates, REMP microtubes, vials



FEATURES & BENEFITS

- ✔ **System sizing:** a wide range of capacity options are available from 200,000 to over 22 million tubes dependent on labware
- ✔ **Functional modules:** allow for customization to meet your needs today and can be modified to meet your future needs
- ✔ **High-density storage:** reformatting labware to proprietary HD storage trays can more than double storage capacity compared to SBS formatted storage
- ✔ **Multi-pitch shelving:** dynamic storage shelving maximizes storage density. A sample imaging module captures barcodes, labware type and heights to assure an optimal storage location
- ✔ **Easy to use:** no special expertise required to operate the system
- ✔ **Improved thermal insulation for enhanced sample temperature stability and energy efficiency**
- ✔ **Modular capacity and throughput options optimized to the sample collection size and workflow throughput requirements**
- ✔ **Automation Interface option:** provides a means of directly interfacing the store with an external automation system

High-density storage:
75% increase in storage capacity over SBS racks



STORAGE CAPACITY EXAMPLES

Description & Model	Length	Width	Height	Capacity FluidX 0.2ml tube
S3-C18-H10	2.8m [9ft 2"]	3.7m [12ft 2"]	2.6m [8ft 6"]	1,100,000
S3-C60-H15	3.8m [12ft 6"]	7.5m [24ft 7"]	2.6m [8ft 6"]	3,900,000
S3-C130-H15	3.8m [12ft 6"]	13.9m [45ft 7"]	2.6m [8ft 6"]	9,800,000
S3-C170-H20	4.8m [15ft 9"]	17.5m [57ft 5"]	2.6m [8ft 6"]	22,000,000

Strata™ Sample Management Software

- ✔ Simplified user interface, adaptable for day-to-day operation with standard dashboards, to more detailed drill-downs and advanced screens for custom needs of 'super users'
- ✔ Compatible with PC and mobile devices, Strata simplifies integration with corporate IT systems and a range of LIMS supporting web service options
- ✔ Allows remote monitoring and management of the store protecting sample integrity with temperature monitoring, throughput and space optimizations and security with user management, sample audit trail and CCTV feeds
- ✔ Supports Oracle and Microsoft SQL databases



Automated Storage Systems

Cryopreservation & Cold Chain Solutions

Informatics & Technical Solutions

Sample Storage, Lab Services & Transport

Sample Consumables & Instruments

SampleStore™ is Designed for Scalable Throughput

The Brooks Life Sciences SampleStore™ is scalable for sample storage capacity and throughput. Our Sample Management experts will design the store to meet the requirements of your workflow also considering the growth of the sample collection and future processing needs. The store can be customized to increase throughput with the following options:

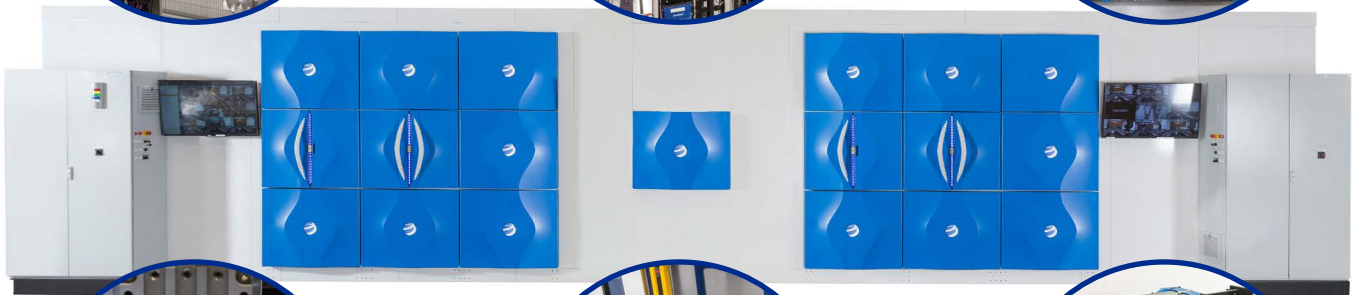
Single / Dual Tray Conveyors



Single / Dual Shuttle Robotics



Up to 16 picking stations



Acoustic Workflow Compatible



Automation Interface Module (AIM) for downstream processing



3 / 4-Lane Selectors to minimise Automation idle times

Single / Dual Tray Conveyors	Enhance order processing throughput with the option of 2 tray conveyors the shuttle robot will transport 2 trays of samples simultaneously improving tray exchange time.
Single / Dual Shuttle Robotics	2 shuttle robots in the store make it possible to achieve a 2x throughput increase if the configuration also includes multiple tube selectors.
Up to 16 picking stations	The option of up to 16 picking stations provides the flexibility to increase throughput and/or labware types. The modules available include 3 or 4 lane multi-tube selectors, vial selectors, plate selectors and the acoustic tube selector supporting the picking of FluidX™ AcoustiX™ Sample Tube - Labcyte® Echo® Qualified Consumable.
Acoustic Workflow Compatible	The Acoustic tube selector is tested for robustness with extensive pick and place cycles. It will pick and place 3 tubes at the same time for increased throughput and has been developed alongside the AcoustiX™ Sample Tube.
Automation Interface Module (AIM) for downstream processing	The AIM delivers samples on a 6 Position SBS Rack Tray on its external diving board location. Any samples that can be presented onto SBS format racks (whether tubes, vials or plates) can be interchanged in this manner and as a result this system is compatible with 96, 384, and 1536 plate formats.
3 / 4-Lane Selectors to minimize Automation idle times	A 4-lane selector allows a return order to be reformatted back into high density storage trays and at the same time as cherry picking an order for output on the same picker. This will reduce order processing time and improve the efficiency of the store.

Automated Storage Systems

Cryopreservation & Cold Chain Solutions

Informatics & Technical Solutions

Sample Storage, Lab Services & Transport

Sample Consumables & Instruments