

Storage, Automation, & Logistics

# BioStore Automated LN2-Based Storage & Handling Solutions



## Safer and more secure sample storage

The BioStore™ automated storage system ensures ultimate sample protection and full inventory control. Your sample collection will not be compromised.



**AZENTA**  
LIFE SCIENCES

[azenta.com](http://azenta.com)

## BioStore: Industry Leading Automated Liquid Nitrogen Vapor Storage

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BioStore storage systems are the only storage solutions which combine the sample protection, safety, and accessibility of a high efficiency LN2 freezer with advanced automation features such as real-time inventory control, cold-chain management and significantly improved customer experience over manual freezers.

### BioStore Models

- BioStore Cryo Storage System: -190°C LN2-based automated storage
- BioStore Ultra Low Storage System: LN2-based automation with a user defined temperature set point between -20°C to -150°C

## BioStore: Software Controller

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BioStore Software Controller enables order management and execution

- Friendly Graphical User Interface
- Tube Level Sample Inventory
- Order Management and Execution
  - Store, retrieve, audit
  - Prioritize orders, pause, resume and cancel orders
- Comprehensive Error Handling
- Monitoring Storage Environment Data
- User Management
  - User authentication
  - User creation, roles and functions
  - System level configurable settings
- Regulated Environments: IQ/OQ/PQ, GxP, 21-CFR-Part 11



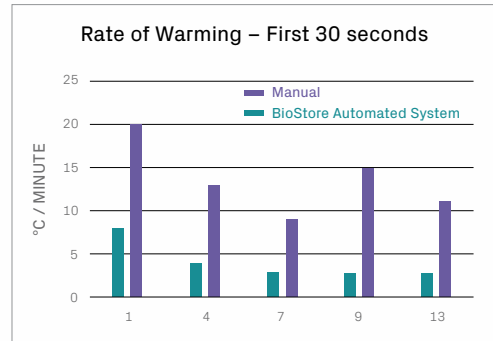
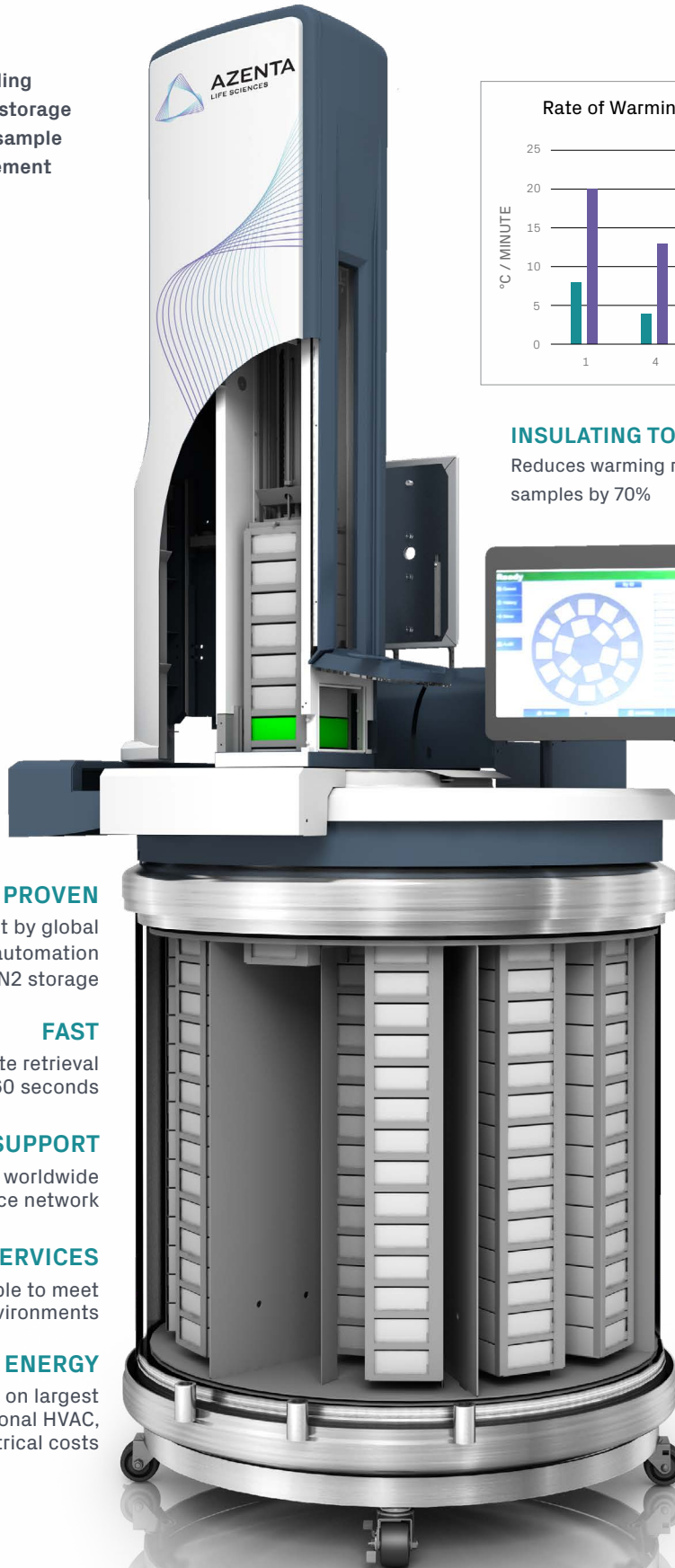
**Real-time inventory control of  
LN2 sample collections!**

## BioStore Software Options

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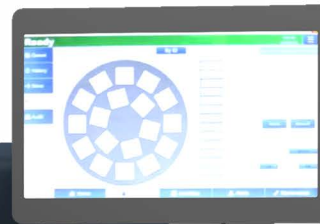
- LIMS connectivity for real-time sample management
- Library license allows users to define access privileges within a single freezer system
- Reports license gives users access to 19 real-time reports for auditing purposes

BioStore industry leading automated cryogenic storage combines the best in sample security, data management and inventory control.



**INSULATING TOWER**

Reduces warming rate of innocent samples by 70%



**SIMPLE USER INTERFACE**

Intuitive touchscreen control

**SECURE**

Access and inventories restricted to pre-authorized users

**USER SAFETY**

Ergonomic design minimizes PPE requirements and reduces injury risk

**DISASTER PROTECTION**

Days of protection in case of electrical failure or LN2 interruption

**REGULATORY**

21-CFR-Part 11 compliant with LIMS connectivity

**FLEXIBLE**

Compatible\* with a wide array of boxes, cassettes or SBS racks



\*Confirm your specific cassette dimensions for compatibility

**PROVEN**

Designed and built by global leaders in automation and LN2 storage

**FAST**

Box or Cassette retrieval in <60 seconds

**SUPPORT**

Azenta Life Sciences worldwide service network

**QUALIFICATION SERVICES**

IQ/OQ/PQ available to meet regulatory environments

**GREEN ENERGY**

< 15L of LN2 per day on largest systems, no additional HVAC, minimal electrical costs

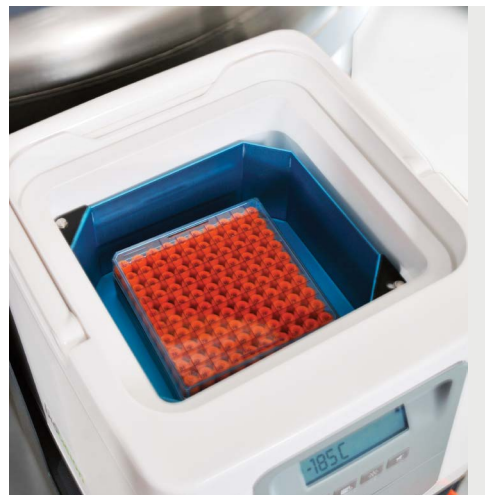
## Cryogenic Sample Handling

### CryoPod™ Carrier: Safe, Portable and Trackable

The award winning CryoPod Carrier is designed to help facilitate temperature controlled intra-lab or intra-campus transportation of material requiring  $<-150^{\circ}\text{C}$  temperatures. It can also be used as a small temperature-controlled work station when identifying individual sample tubes from a box. Integrated monitoring and alarms help ensure cryogenic protection for your high value collections.

- Maintains temperature  $<-150^{\circ}\text{C}$  for over 3 hours\*
- Logs temperature, date, time and alarms
- Flexibility to use with cryoboxes or cassettes
- LN2 vapor environment
- Simple, 15-minute charge time

\*Hold time dependent on fill level, heat load and lid placement



### Automated Filling Station for CryoPod Carrier

The CryoPod Filling station is your answer to easy LN2 handling and lab operations when used in combination with the CryoPod. The CryoPod Filling Station is an intuitive solution for personnel working in labs dependent on cryogenic infrastructure. Users can load the CryoPod, push the fill button and return after 15 minutes for use.

- Safe, hands free LN2 CryoPod Carrier charging
- Simple, single button operation
- Flexible LN2 supply connection
- Fast, charges in less than 15-minutes



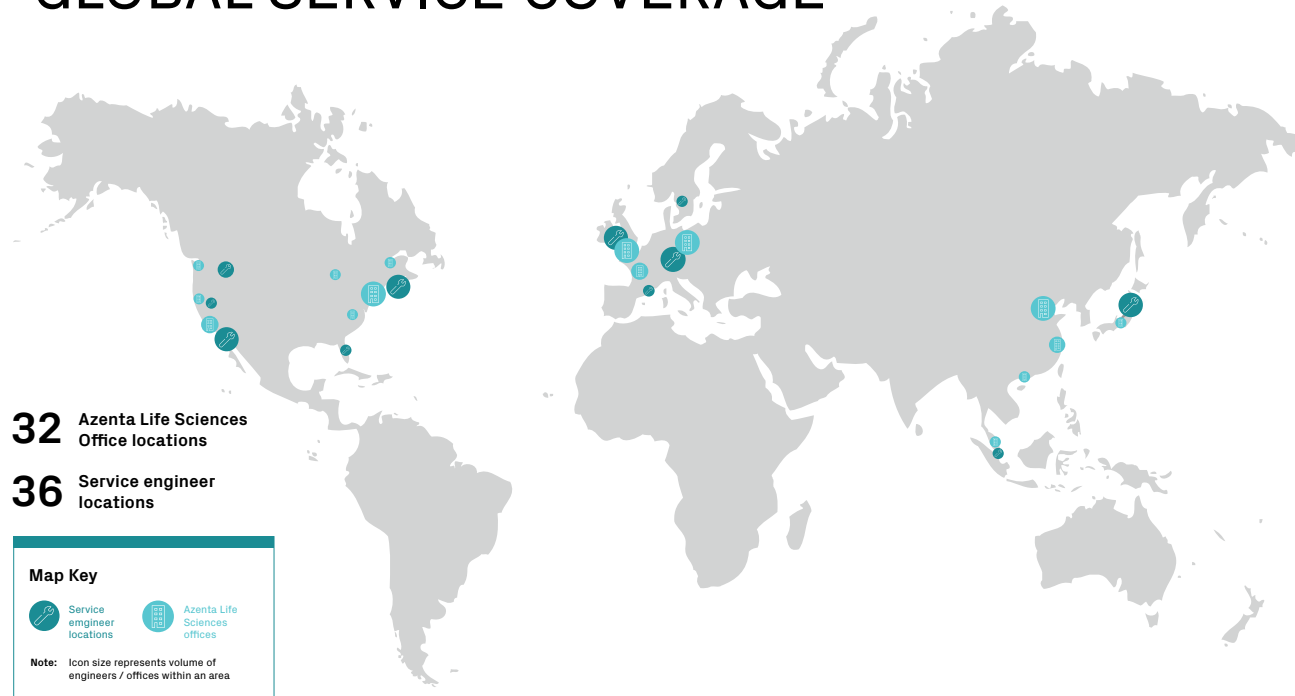
## BioStore: Support Plans

Azenta Life Sciences products are designed and tested to suit the workflow demands of our customers. We know that some customers operate our instruments in environments where even the smallest downtime can be costly. In recognition of this, Azenta Life Sciences offers standard Support Plans to meet your workflow needs. These plans have been structured to offer flexibility so you can choose a package most appropriate to you. There are a range of benefits to offer peace of mind.

## Key Benefits

- Mitigate downtime in your workflows
- Direct access to expert technical support
- Confidence in the protection of workflow
- Discounts for multi-year, multi-instrument contracts
- We can also provide tailored service options for customers with a more bespoke requirement

## GLOBAL SERVICE COVERAGE



## Additional Support Services

- **Training:** improve up-time and increase your team’s skill set and efficiency with onsite training classes that cover operations and error recovery
- **Validation Support Services:** ensure compliance requirements are met with Installation Qualification, Operational Qualification, and Process Qualification (IQ-OQ-PQ) of your Azenta Life Sciences equipment
- **Customized Upgrade Solutions:** extend the lifetime of your system with standard or customized upgrade solutions based on your specific equipment configuration
- **Equipment Repair/Refurbishment:** have your device or instrument repaired or refurbished/upgraded at one of our repair sites throughout the world
- **Equipment Relocation:** expert disassembly and re-installation of your system should you need to relocate your system to new premises

## Support Plans

	Standard Factory Warranty	Warranty Plus	Enhanced Warranty	Basic Package	Performance Package	Ultimate Care Package
	Year 1			Year 2		
<b>CORRECTIVE SERVICES</b>						
Unlimited phone & email support	✓	✓	✓	✓	✓	✓
Priority on-site response commitment	Standard response time	Standard response time	3 business days	Standard response time	3 business days	3 business days
On-site corrective maintenance	✓	✓	✓	✓	✓	✓
<b>REMOTE DIAGNOSTIC &amp; REPAIR</b>						
Unlimited priority phone & email support	✓	✓	✓	✓	✓	✓
Remote Access Support	✓	✓	✓	✓	✓	✓
Unlimited Software	✓	✓	✓		✓	✓
<b>PREVENTATIVE MAINTENANCE SERVICES</b>						
Pre-scheduled, on-site preventive maintenance (PM) & PM parts kit (1/system/year)	✓	✓	✓		✓	✓
Software & firmware updates during preventive maintenance, as required			✓			✓
Equipment Operating Temperature Verification, 1 per annum			✓			✓
<b>ADDITIONAL SERVICES AVAILABLE FOR PURCHASE</b>						
Loyalty discount on parts & accessories	Not available	10% discount	Included	Not available	Included	Included
Discount of on-site or institute-based training, where applicable	Full charges apply	10% discount	10% discount	Full charges apply	10% discount	10% discount
Qualification & calibration services	Full charges apply	Full charges apply	10% discount	Full charges apply	10% discount	10% discount

	BioStore Cryo M42	BioStore Cryo M60	BioStore Cryo M60 for 250mL Cassettes	BioStore Ultra Low M60
<b>CAPACITY STORAGE LOCATIONS</b>	(252) 2" Cryoboxes or equivalent	(630) 2" Cryoboxes or equivalent	(990) 250mL Cassettes	(630) 2" Cryoboxes or equivalent
1.0ml Azena Cryotubes	49,392	123,488	N/A	123,488
2.0ml Azena Cryotubes	25,200	63,000	N/A	63,000
Box Level Retrieval Speed	< 60 Seconds	< 60 Seconds	< 60 Seconds	< 60 Seconds
Labware Types	Box, Cassette, SBS*	Box, Cassette, SBS*	250mL Cassettes*	Box, Cassette, SBS*
Static Holding Time Vapor	17 days to -135°C	23 days to -135°C	23 days to -135°C	> 4 days to reach -60°C
Electrical	110v/220v	110v/220v	110v/220v	110v/220v
<b>SYSTEM DIMENSIONS:</b>				
Height	108", 2,743 mm	125", 3,175 mm	125", 3,175 mm	125", 3,175 mm
Width	42", 1,067 mm	60", 1,524 mm	60", 1,524 mm	60", 1,524 mm
Depth	62", 1,575 mm	79", 2,007 mm	79", 2,007 mm	79", 2,007 mm
Empty System Weight	1,124 lbs/511 kg	2,349 lbs/1,067 kg	2,433 lbs/1,105 kg	2,349 lbs/1,067 kg
Full System Weight (Estimated)	1,703 lbs/774 kg	3,721 lbs/1,691 kg	3,555 lbs/1,615 kg	3,200 lbs/1,454 kg
Maximum Floor Load (estimated)	95 lbs/ft <sup>2</sup> or 461 kg/m <sup>2</sup>	113 lbs/ft <sup>2</sup> or 553 kg/m <sup>2</sup>	108 lbs/ft <sup>2</sup> or 529 kg/m <sup>2</sup>	98 lbs/ft <sup>2</sup> or 475 kg/m <sup>2</sup>
LN2 Connection Type	1/2" NPT Male Fitting to existing Vacuum Jacket Line			
LN2 Supply Pressure (open valve)	22-35 psig / 1.52-2.41 bar			
LN2 Evaporation Rate / day (nominal)	≈ 9.5 L/day	≈ 13.6 L/day	≈ 13.6 L/day	≈ 12 L/day
<b>OPERATING ENVIRONMENT:</b>				
Temperature	65°F - 80°F / 18°C - 27°C			
Humidity	Max 50% rH (non-condensing)			
Warranty	1-Year; includes onsite service, travel, and spare parts.			
<b>OTHER</b>				
Installation & Operator Training Included				
<b>REGULATORY COMPLIANCE:</b>				
China RoHS, Conflict Materials, EU REACH, EU RoHS CE Mark Directives [Machinery Directive, EMC Directive, and RoHS Directive]				

\*All labware and box types should be confirmed

AZENTA LIFE SCIENCES AUTOMATED STORAGE SYSTEMS ARE BACKED BY THE SCALE AND EXPERIENCE OF A GLOBAL SUPPORT TEAM. TODAY, OVER 500 AUTOMATED SYSTEMS ACROSS A WIDE RANGE OF APPLICATIONS HAVE BEEN INSTALLED AND ARE MAINTAINED BY AZENTA LIFE SCIENCES. YOU CAN BE CONFIDENT AS AZENTA LIFE SCIENCES REMOVES THE RISK AND UNCERTAINTY OF SUPPORTING YOUR AUTOMATED SAMPLE STORAGE PLATFORM WELL INTO THE FUTURE.

