

CryoArc Automated LN2-Based Storage & Handling Systems



Safer and more secure sample storage

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



CryoArc: Industry Leading Automated Liquid Nitrogen Vapor Storage

CryoArc™ automated storage systems combine the sample protection, safety, and accessibility of a high-efficiency LN2 freezer with advanced automation features. CryoArc offers advanced features such as real-time inventory control, cold-chain management, and a significantly improved customer experience compared to manual access freezers. As a result, CryoArc enhances sample management and reliability, setting a new standard for automated storage solutions in the industry.

CRYOARC MODELS

- CryoArc™ Pico -190°C LN2-based automated storage system
- CryoArc™ Deca -190°C LN2-based automated storage system
- CryoArc™ Tera -190°C LN2-based automated storage system

CryoArc Software Controller

CryoArc 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

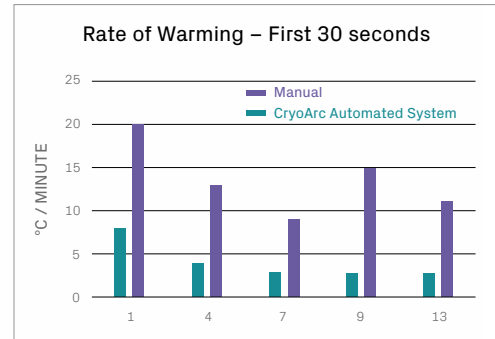
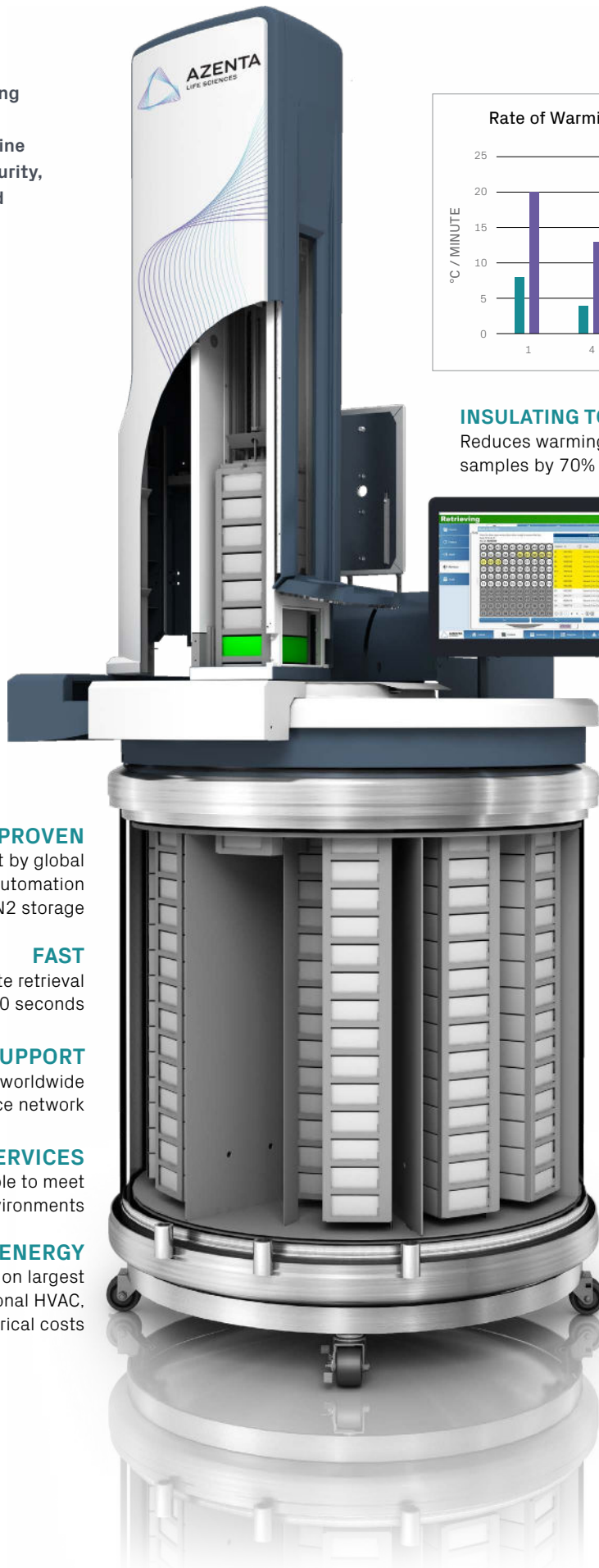


**REAL-TIME INVENTORY CONTROL
OF LN2 SAMPLE COLLECTIONS!**

CryoArc Software Options

- 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 22 real-time reports for auditing purposes
- Alert management feature allows users to configure custom alerts including email or text notifications for variety of system operations and behaviors

CryoArc industry-leading automated cryogenic storage systems combine 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

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

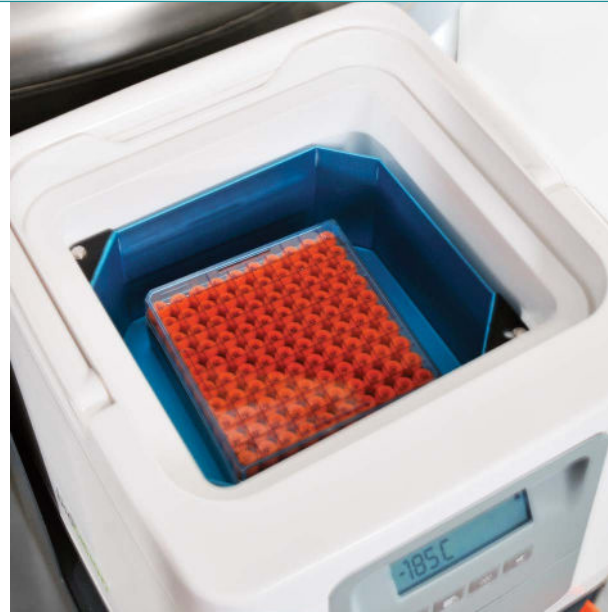
Cryogenic Sample Handling

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 $\leftarrow 150^{\circ}\text{C}$ 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



CryoArc 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

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 Warranty	Warranty Plus	Enhanced Warranty	Basic Package	Performance Package	Ultimate Care Package	Premium Care Package
	Year 1			Year 2+			
CORRECTIVE SERVICES							
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	3 business days
On-site corrective maintenance	✓	✓	✓	✓	✓	✓	✓
Repair parts, labor & travel costs					✓	✓	✓
REMOTE DIAGNOSTIC & REPAIR							
Unlimited priority phone & email support	✓	✓	✓	✓	✓	✓	✓
Remote access support	✓	✓	✓	✓	✓	✓	✓
Unlimited software	✓	✓	✓		✓	✓	✓
PREVENTATIVE MAINTENANCE SERVICES							
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			✓			✓	✓
RTD & freezer controller verification, per annum			✓ 1x			✓ 1x	✓ 2x
ADDITIONAL SERVICES AVAILABLE FOR PURCHASE							
Loyalty discount on parts & accessories	Not available	10% discount	Included	Not available	Included	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	10% discount
Qualification & calibration services	Full charges apply	Full charges apply	10% discount	Full charges apply	10% discount	10% discount	10% discount

	CryoArc Pico	CryoArc Deca	CryoArc Tera	CryoArc Tera for Cassettes
CAPACITY OF STORAGE:	(88) 2" Cryoboxes or Equivalent	(266) 2" Cryoboxes or Equivalent	(630) 2" Cryoboxes or Equivalent	(990) 250mL Cassettes
1.0 mL Azenta Cryotubes	17,248	52,136	123,480	N/A
2.0 mL Azenta Cryotubes	8,800	26,600	63,000	N/A
25 mL Cassettes	400	1,520	3,360	990
50 mL Cassettes	N/A	760	1,680	990
250 mL Cassettes	N/A	N/A	N/A	990
Box Level Retrieval Speed	< 60 Seconds	< 60 Seconds	< 60 Seconds	< 60 Seconds
Labware Types	Box, up to 25 mL Cassettes, SBS*	Box, up to 50 mL Cassettes, SBS*	Box, up to 50 mL Cassettes, SBS*	Up to 250 mL Cassettes*
Static Holding Time Vapor	10 days to -135°C	15 days to -135°C	21 days to -135°C	23 days to -135°C
Electrical	110V/220V	110V/220V	110V/220V	110V/220V
SYSTEM DIMENSIONS:				
Height	95.5" / 2,426 mm	107.9" / 2,741 mm	120.49" / 3,060 mm	125.1" / 3,179 mm
Width	42.7" / 1,085 mm	45.8" / 1,163 mm	59.93" / 1,522 mm	60.0" / 1,524 mm
Depth	56.8" / 1,443 mm	58.9" / 1,496 mm	80.21" / 2,037 mm	79.0", 2,007 mm
Empty System Weight	1,122 lbs / 511 kg	1,497 lbs / 680 kg	2,552 lbs / 1,149 kg	2,231 lbs / 1,054 kg
Full System Weight (Estimated)	1,402 lbs / 640 kg	2,155 lbs / 979 kg	4,538 lbs / 2,061 kg	3,441 lbs / 1,563 kg
Maximum Floor Load (Estimated)	84 lbs/ft ² or 410 kg/m ²	116 lbs/ft ² or 563 kg/m ²	136 lbs/ft ² or 665 kg/m ²	105 lbs/ft ² or 512 kg/m ²
LN2 Connection Type	1/2" NPT Male Fitting to existing LN2 Supply Line			
LN2 Supply Pressure (Open Valve)	22-35 psig / 1.52-2.41 bar			
LN2 Evaporation Rate / day (Nominal)	≈ 9 L/day	≈ 9.9 L/day	≈ 18.3 L/day	≈ 13.6 L/day
OPERATING ENVIRONMENT:				
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.			
OTHER	Installation & Operator Training Included			
REGULATORY COMPLIANCE	China RoHS, Conflict Materials, EU REACH, EU RoHS CE Mark Directives			

*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.

