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BioStore™ -80°C LN2-Based Automated Storage System



BioStore -80°C LN2-Based Automated Storage System

BioStore -80°C LN2-Based Automated Storage System is a space efficient automated freezer which can be used for a wide range of applications and inventory types, designed by combining the advanced automation technologies and user interface from Azenta Life Sciences with the performance of industry-leading LN2 freezers to deliver optimal long term system insulation performance

- Accommodates a wide range of labware
- Holds 630 cryoboxes for a wide range of labware
- Sample retrieval in under 60 seconds
- LIMS connectivity

Overview

Industry-first -80°C LN2 refrigerated automated storage system with inventory control including 21-CFR-11 reporting, the BioStore -80°C LN2-Based Automated Storage System combines Azenta Life Sciences advanced automated sample management technology with industry-leading LN2 freezers.

The system offers best-in-class sample security, data management, and inventory control. Complete sample protection with innovative design to prevent the transient sample warming events that usually occur during sample retrieval from typical -80°C mechanical storage systems. The BioStore -80°C LN2-Based Automated Storage System provides maximum biosample collection protection combined with cost-effective -80°C LN2 automated storage. The system is a perfect fit for biobank customers with high-value, temperature-sensitive samples.

The BioStore -80°C LN2-Based Automated Storage System protects irreplaceable sample assets with the security and efficiencies of LN2 storage while providing all the benefits of automated storage at -80°C.

Key Features

- **Properties**

- Can be set to a desired temperature between -20°C and -150°C*
- Insulating tower temperature protection for non-targeted boxes
- Extended hold time compared to mechanical freezers in emergency situations
- Ergonomically designed for simple user experience and minimized injury risk
- Superior user interface for easy operation and inventory documentation
- Simple, accurate and documented inventory management to the vial level
- Secure username and password access for full traceability
- Library management is an option, allowing the freezer to be partitioned into libraries with user defined access control
- LIMS integration and reporting options to enhance existing storage and tracking infrastructure
- Holds more than 120,000 1.0ml tubes or 63,000 2.0ml tubes
- Use with a variety of labware types including cryoboxes, SBS racks
- Sample retrieval in less than 60 seconds
- Automatic retrieval of samples through a touchscreen interface

**Temperature variation is +/- 6°C due to thermocouple variation and thermal loading*

- **Quality**

- **Innocent sample protection:** insulated tower prevents sample warming of targeted and non-targeted tubes when a source rack is removed from the system
- **Secure:** access and defined libraries can be restricted to preauthorized users
- **Disaster protection:** extended sample hold-time during unplanned disasters or emergencies is 16 times longer than typical mechanical freezers
- **Qualification services:** IQ/OQ/PQ available to meet regulatory requirements

Specifications

Parameter	BioStore -80°C LN2-Based Automated Storage System
Capacity storage locations	Holds 630 cryoboxes for a wide range of labware
1.0ml tubes	123,480
2.0ml tubes	63,000
6.0ml aseptic vials	15,750
Box level retrieval speed	Approximately 60 seconds
Labware types	Cryoboxes, SBS racks*
Static holding time vapor	4 days of hold time from -80°C to -60°C

Electrical	110v/220v
Empty freezer weight	114 lbs/ft2
Full freezer weight	3,721lbs/1,691kg
Maximum floor load	114lbs/ft2 (4.8kg/m2) (based on full system weight)
LN2 connection type	1/2" (NPT female fitting to existing vacuum jacket line)
LN2 supply pressure (open valve)	22-35 psig/1.52-2.41bar
LN2 evaporation rate/day (nominal)	12-14l/day
Dimensions (H x W x D)	125 inches (3175mm) x 60 inches (1524mm) x 70 inches (1778mm)
Warranty	1 year (includes onsite service, travel, and spare parts) (preventative maintenance and wear parts not included)
Other	Installation & operator training included Validation qualification services available

**Labware should be validated with Azenta Life Sciences*

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