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Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://azenta.nt-rt.ru/> || aez@nt-rt.ru

BioStore™ -190°C LN2-Based Automated Storage System for Cryo Cassettes



BioStore -190°C LN2-Based Automated Storage System for Cryo Cassettes | Inside View

BioStore -190°C LN2-Based Automated Storage System for Cryo Cassettes is the only fully automated liquid nitrogen based system, capable of handling a wide range of cryo cassettes including 250ml sizes; the new standard in secure, documented cryo cassette storage.

- Smooth, automated cassette handling
- Insulating tower for temperature stability
- Fully integrated inventory management
- Reports to support 21-CRF-11 compliance
- 17-21 days of emergency hold time
- Capacity of 990 cryo cassettes

Overview

The latest version of BioStore -190°C LN2-Based Automated Storage System brings simple, automated management for 250ml cryo cassettes to the market for the first time, enabling users to avoid the risk of errors and variability inherent in manual inventory handling. The addition of automated tracking and handling for 250mL cryo cassettes marks a significant enhancement to the BioStore product line.

As cellular therapy products move from discovery through clinical trial and commercialization phases, many customers are standardizing 250ml cryobags for storage and delivery of high-value product. Azenta Life Sciences is committed to expanding the product line to bring all the advantages

of automated inventory management to clinical and commercial customers. This product supports the detailed regulatory and workflow process required to address the precision medicine market.

Key Features

- **Sample Integrity, Security & Tracking**
 - Consistent -190°C temperatures achieved for from top to bottom using LN2 vapor
 - A sample integrity calculator protects samples from excessive warming by predicting their temperatures based on experimental evidence
 - Integrity is further enhanced by protecting innocent samples during storage and retrieval transient exposures
 - Racks are quickly pulled into an insulated sleeve, significantly slowing transient warming
 - 20-day safety hold time below -135°C (T_g) with full manual access if power or LN2 are disrupted
 - Comprehensive inventory management with vial-level ID, audit trail, reports, and LIMS connectivity
- **Software**
 - BioStore controller software and touchscreen enable efficient order management and execution
 - Its easy-to-use graphical interface permits tube-level inventory management plus sample storage, retrieval, and auditing
 - The software monitors storage environment data and has comprehensive error handling
 - LIMS connectivity is available for real-time sample management
 - Full 21-CFR-11 reporting capability is available
 - Administrator-defined libraries and access control can optimize the system as a shared resource

Specifications

	US/Imperial	Metric
System Dimensions		
Height	125.00"	3,175mm
Width	60.00"	1,524mm
Depth	79.00"	2,007mm
Storage Capacity	(990) 250ml Cryo Cassettes	
Weight (empty)	2,433lbs	1,105kg
Weight (full)	3,548lbs	1,612kg

Maximum Floor Load	108lbs/ft2	528kg/m2
Maximum Point Load (4-points)	887lbs	403kg
Electrical		
Voltage	110V, Single Phase	220V, Single Phase
Amps	2A	1A
Power Output (Idle)	100 Watts	
Power Output (MAX)	220 Watts	
Plug Type	NEMA 5-15	CEE 7/4
LN2	(IEC TYPE B)	(IEC TYPE F)
Connection Type / Size	1/2” NPT Female Fitting to existing Vacuum Jacket line	
Supply Pressure (open valve)	22-35 psig	1.52-2.41bar
Capacity (Vapor Phase)	295L	
Static Evaporation Rate (nominal)	13.6L/day (11.00kg/day)	
Static Holding Time Vapor	21 days	
Operating Environment		
Temperature	65°F-80°F	18°C-27°C
Humidity	Max 50% rH (non-condensing)	
Operating Temperature	-310°F or lower	-190°C or lower

Warranty	1-Year; includes onsite service, travel, and spare parts. Preventative maintenance and wear parts not included.
Other	Installation and operator training included
Regulatory Compliance	China RoHS, Conflict Materials, EU REACH, EU RoHS, CE Mark Directives [Machinery Directive, EMC Directive, and RoHS Directive]

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