

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
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Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
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
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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



BioStore -190°C LN2-Based Automated Storage System

The BioStore -190°C LN2-Based Automated Storage System provides the best in class automated storage solution for cellular products and other materials requiring storage temperatures below glass transition (Tg)

- Highest sample protection
- Comprehensive inventory management system
- Superior user experience
- LIMS connectivity

Overview

The BioStore -190°C LN2-Based Automated Storage System provides researchers and biobank managers with a best-in-class storage solution for cellular products and biosamples. The system combines a high-efficiency LN2 stainless steel freezer with the Azenta Life Sciences technology and software to ensure the highest sample integrity.

The BioStore -190°C LN2-Based Automated Storage System offers the greatest sample protection and comprehensive inventory management and control with a superior user experience at an affordable price. Targeted and non-targeted samples are protected from warming above Tg (glass transition) throughout sample retrieval. Quality is assured by viewing user access, sample inventory, history, and audit-trail reports. Emergency situation protection provides greater than 20 days of temperature stability in the case of energy or LN2 loss.

Key Features

- **Properties**

- Available in two sizes
- Compatible with a range of labware, e.g. cryoboxes, vials, microplates
- Full vial or cassette level inventory tracking
- Complete -190°C vapor storage environment*
- SW is capable of providing accurate real-time audit reports
- LIMS connectivity and system partitioning for shared use
- Insulating tower temperature protection for non-targeted tubes
- Ergonomic design for simple user experience and minimized injury risk
- 17-23 day hold time in case of catastrophic interruption of electrical or LN2 supply (depending on system size)
- Proven technology: based on Azenta Life Sciences expertise and industry leading cryogenic freezers

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

- **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 (Tg) with full manual access if power or LN2 are disrupted
- Comprehensive inventory management with vial-level ID, audit trail, reports, and LIMS connectivity

- **Software**

- 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

Parameter	BioStore 1500	BioStore 1800
Dimensions	1,067mm (42in)	1,524mm (60in)
Cryobox capacity	252	630
2ml vial capacity	25,200	63,000

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