

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Рязань (4912)46-61-64
Астана (7172)727-132	Красноярск (391)204-63-61	Самара (846)206-03-16
Белгород (4722)40-23-64	Курск (4712)77-13-04	Санкт-Петербург (812)309-46-40
Брянск (4832)59-03-52	Липецк (4742)52-20-81	Саратов (845)249-38-78
Владивосток (423)249-28-31	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Волгоград (844)278-03-48	Москва (495)268-04-70	Сочи (862)225-72-31
Вологда (8172)26-41-59	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Воронеж (473)204-51-73	Набережные Челны (8552)20-53-41	Тверь (4822)63-31-35
Екатеринбург (343)384-55-89	Нижний Новгород (831)429-08-12	Томск (3822)98-41-53
Иваново (4932)77-34-06	Новокузнецк (3843)20-46-81	Тула (4872)74-02-29
Ижевск (3412)26-03-58	Новосибирск (383)227-86-73	Тюмень (3452)66-21-18
Казань (843)206-01-48	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Калининград (4012)72-03-81	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калуга (4842)92-23-67	Пенза (8412)22-31-16	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Пермь (342)205-81-47	Череповец (8202)49-02-64
Киров (8332)68-02-04	Ростов-на-Дону (863)308-18-15	Ярославль (4852)69-52-93

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Система хранения образцов Bios Hamilton

Hamilton BIOS®

Automated Medium- to Large-Capacity Biobanking

Hamilton BIOS is an automated storage system specifically designed to store sensitive biological samples at -80°C. BIOS keeps samples close to -80°C throughout their entire life inside the system—while introducing and sorting samples, managing the inventory, processing and delivering orders, and controlling sample access rights. In addition, BIOS records a full audit trail and temperature log for all samples managed in the system.

Its modular and scalable design allows storage of 100,000 to over 10 million samples in a wide variety of labware. It seamlessly interfaces with your IT infrastructure and laboratory information management system (LIMS) by providing the BIOS Application Programming Interface (API) and remote monitoring options.



Benefits of the BIOS System:

- ▶ Sample integrity—ensures samples are always kept at ultra-low temperatures, even during processing
- ▶ Flexibility—capable of storing and picking multiple types of labware and expanding modularly
- ▶ Reliability—redundant backup systems
- ▶ Sample tracking—1-D and 2-D barcode reading during introduction, internal processes and retrieval
- ▶ Feature-rich software—Instinct S provides access restrictions, sample tracking and audit trails to support 21 CFR Part 11 compliance

Technical Specifications:

Storage Temperature	-80°C
Processing Temperature	-80°C
Redundancy (Options)	Two independent refrigeration systems and LN ₂ backup
Barcode Reader	1-D and 2-D for plates, 2-D for tubes

Ultra-Low Temperature Tube Picker

Capable of processing multiple types of labware without the need for any mechanical changes or additional processing modules.



Sample Integrity

BiOS is designed to guarantee sample integrity throughout the lifetime of the sample. Temperature stability is key to maintaining the value of samples. By taking special measures to eliminate any significant temperature fluctuations, potential sample degradation is prevented. One of the key components for this is our -80°C tube picker (patent pending) which helps maintain constant sample temperatures.

Flexibility

BiOS easily integrates into your applications. The system supports a wide range of labware in SBS standard racks or plates up to a height of 110 mm. A mixture of labware can be stored and sorted in the same tube picking module. This allows different labware formats from multiple sources to be easily stored in one system.

Additionally, the capacity of BiOS can be scaled to fit your specific storage needs, whether it is 100,000 or greater than 10 million samples.

- ▶ **BiOS M** is designed for existing labs with limited accessibility that need a compact storage system.
- ▶ **BiOS L** is designed in a compact footprint for labs that require large storage needs.
- ▶ **BiOS XL** is designed for the largest studies to store millions of samples in dedicated facilities.

Reliability

Reliability and ease of service are designed into the system, keeping operations at peak performance. System reliability is key to maximizing productivity. Hamilton realizes this by keeping all automation in the -20°C area to increase reliability and minimize downtime. Additionally, service to the system can be done quickly and efficiently. The refrigeration compartments are externally accessible. Inside BiOS, samples are safely sealed in lidded -80°C chest compartments allowing service to be performed without affecting the samples.

Applications

- ▶ Biobanking
- ▶ Forensics
- ▶ Drug Discovery
- ▶ Life Science Research
- ▶ Pharmacogenomics
- ▶ Genotyping

Dimensions and Capacities:

	BiOS M	BiOS L	BiOS XL
Height	2.9 m (9 ft 7 in)	4.4 m (14 ft 6 in)	4.85 m (15 ft 10 in)
Width	3.9 m (12 ft 10 in)	3.9 m (12 ft 10 in)	5 m (16 ft 5 in)
Length	3.5 m to 10.2 m (11 ft 7 in to 33 ft 6 in)	3.5 m to 10.2 m (11 ft 7 in to 33 ft 6 in)	7.1 m to 22.5 m (23 ft 4 in to 73 ft 10 in)
Example Capacities:			
Greiner 2 mL	115K to 1.15M	187K to 1.87M	763K to 3.81M
FluidX 1.0 mL	259K to 2.59M	417K to 4.17M	1.7M to 8.51M
Micronic 0.5 mL	388K to 3.88M	633K to 6.33M	2.58M to 12.92M
Matrix™ 0.3 mL	489K to 4.89M	792K to 7.92M	3.23M to 16.15M

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