



Celltrio is leading the world of lab automation through its **modular** integration of proven task modules, data management software, and robotics. We are redefining the standards for science and medicine.



RoboStor®

Celltrio's RoboStor[®] is an automated liquid nitrogen (LN2) freezer that provides a robotic, cryogenic -195°C storage solution that is perfect for R&D, biobanking and cell culture applications.

RoboStor[®] can be equipped with an individual vial handler that can automatically transfer vials between storage racks, RoboVial[™]. This option is field upgradeable and fits comfortably within the existing RoboStor[®] footprint. Celltrio's RoboVial[™] has an optional scanner to read the 2D barcodes of all the vials from a bottom view of the rack, in one scan.

RoboStor[®] expands to multi-freezer configurations with Celltrio's SkyView C3[®] line management software, for high volume testing and production. Robostor[®] is designed as a modular component and can be directly integrated into a Celltrio RoboCell[™] which is a fully automated cell maintenance, cell culture, and advanced plating system.



Safe

- Automatic storage and retrieval ensures sample location and data integrity, minimizes cross-contamination, and limits sample exposure to room temperature
- Sensors on access doors prevent robot motions during operator access
- Complies with CE and ANSI / RIA robot safety standards



Control

- Intuitive, modern touchscreen interface
- Restricted access to samples and interface through secure control features
- Advanced Inventory Management System (IMS) with barcode reader for tracking



Data Management

- Powerful Skyview C3[®] software provides continuous monitoring and logging of freezer data, device status, and user actions
- Audible and visual alarms for safety, and LN2 level
- Easily connects with facility alarm, monitoring systems, and remote control



Efficient

- Optimized robotic storage and retrieval
- Quick access to data and controls within 1-2 touches
- Fast, easy search to locate and review items stored in the freezer

The Fastest Path To Cell Line Automation

RoboVial[™]

Specifications

	RoboStor	[™] Specif	ications		
RoboStor™ Dimensions	1150 mm x 1150 mm x 2710 mm (3.77 ft x 3.77 ft x 8.90 ft)				
Cryogenic Storage Tank Dimensions	Height without Robot	1399 mm (4.59 ft)			
	Inner Diameter	1082 mm (3.55 ft)			
	Outer Diameter	1150 mm (3.77 ft)			
System Weight	1663 lbs (not loaded)				
	Labware	Racks	Slots per Rack	Samples	
	SBS Cryo Rack	18	13	Variable	
Storage Capacity	10 x 10 Box (1.2 mL or 2.0 mL internal threaded)	18	13	23,400	
	9 x 9x Box (1.2 mL or 2.0 mL internal threaded)	18	13	18,954	
	250 mL Cassette	12	36	432	
	500 mL Cassette	12	36	432	
LN2 Capacity	Total LN2 Capacity	818 liters			
	LN2 Under Turntable Capacity	155 liters			
	Touchscreen User Interface	10.1" Panel			
Celltrio SkyView	Communication	Ethernet, RS-485 (Contact Celltrio for Options)			
Controller	Battery Backup	12V, 7Ah, 36 hours			
	Power	AC 110/230V, 6A, 50/60Hz			
Other	Storage Temperature	-195°C			
	Environment Requirements	Room Temperature (20°C ~ 25°C) Max. 50% rH (noncondensing)			
	Vacuum Insulating Provides Significant Reduction in LN2 Supply	5 Year Warranty			
	Add-On Options	RoboVial™ (Individual CryoVial Handling)			

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RoboStor[™] with RoboVial[™]



RoboVial [™] Specifications					
Container Requirements	Format	SBS CryoRack, 10x10			

	Cap Size (Outer Diameter)	8~13 mm*		
Vial Requirements	Сар Туре	Round (internal, external)*		
	Height in Container / CryoRack without Lid	< 54 mm		
	Supports One Vial Type Per RoboStor and RoboVial Unit			
Unit Weight	220 lbs			
	Individual CryoVial Transfer Time	Average: 4 seconds / cryovial		
Cycle Times	Container Store / Retrieve Time	90 ~ 120 seconds		
	Container + All CryoVials' Barcode Scan Time	Maximum: 12 seconds		







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