



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

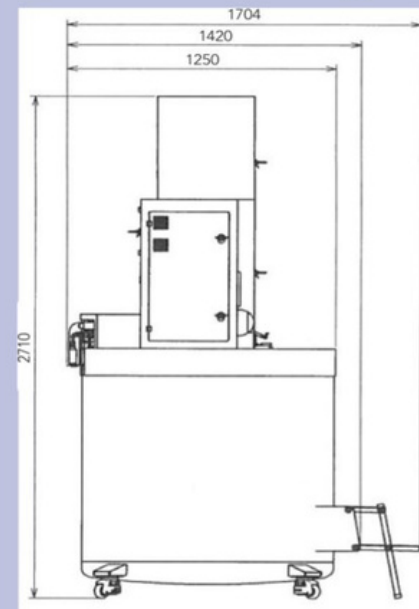
Specifications

RoboStor™ Specifications				
RoboStor™ Dimensions	1190 mm x 1190 mm x 2710 mm (3.91 ft x 3.91 ft x 8.90 ft)			
Cryogenic Storage Tank Dimensions	Height without Robot	1969 mm (6.50 ft)		
	Inner Diameter	1122 mm (3.68 ft)		
	Outer Diameter	1190 mm (3.90 ft)		
System Weight	1663 lbs (not loaded)			
Storage Capacity	Labware	Racks	Slots per Rack	Samples
	SBS Cryo Rack	18	13	Variable
	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	900 liters		
	LN2 Under Turntable Capacity	167 liters		
Celltrio SkyView Controller	Touchscreen User Interface	10.1" Panel		
	Communication	Ethernet, RS-485 * Contact Celltrio for Options		
	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 (non--condensing)		
	Vacuum Insulating Provides Significant Reduction in LN2 Supply	5 Year Warranty		
	Add-On Options	Vial Handler™		
RoboVial™ Specifications				
Container Requirements	Format	SBS Cryo Rack, 10x10, 9x9*		
Vial Requirements	Cap Size (O.D)	8~13 mm*		
	Cap Type	Round (internal, external)*		
Operating Temperature	Room Temperature**			
Unit Weight	220 lbs			

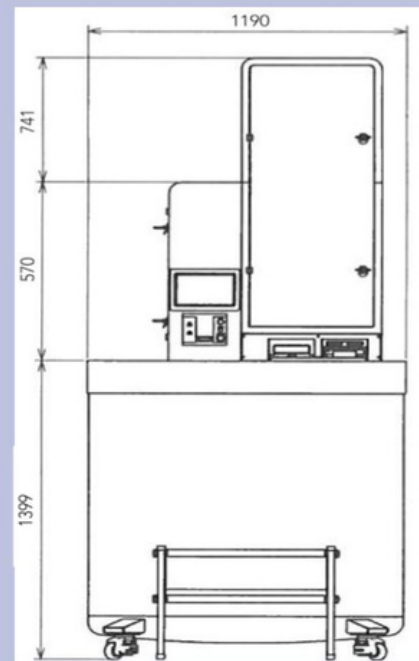
*For maximum efficiency of storage and operation, each RoboStor® supports one container type with one vial/cap type. Mixing and matching container types and or vial/cap types is not recommended.

**We recommend a maximum exposure time of 2 minutes for vials to be in ambient temperature. This results in ~10 vials being transferred before they must return to the LN2 storage environment.

Dimensions (CAD, Drawings)



Rear View



Front View

