

CryoArc Deca -190°C LN2-Based Automated Storage System



AUTOMATED CRYOGENIC FREEZER FOR SIMPLE, DOCUMENTED INVENTORY MANAGEMENT.

The CryoArc™ Deca -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 (T_g). This system combines the highest sample protection and comprehensive inventory management system with a superior user experience.

The insulating tower protects non-targeted materials from unintended warming events during access. System software provides the best-in-class user interface to track user access, manage sample inventory, and provide a full audit trail with reports to support 21-CFR-11 compliance and required audits.

- Compatible with a wide range of container types including vials, SBS racks, and up to 50 mL cassettes.
- Full vial- or cassette-level inventory tracking
- Complete -190°C vapor storage environment*
- Software 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
- 15 day hold time in case of catastrophic interruption of electrical or LN2 supply (depending on system size)
- Proven Azenta automation combined with industry leading freezer



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	US / Imperial	Metric
CAPACITY OF STORAGE	(266) 2" Cryoboxes or Equivalent	
1.0 mL Azena Cryotubes	52,136	
2.0 mL Azena Cryotubes	26,600	
25 mL Cassettes	1,520	
50 mL Cassettes	760	
Box Level Retrieval Speed	< 60 seconds	
Labware Types	Box, up to 50 mL Cassettes, SBS*	
SYSTEM DIMENSIONS		
Height	107.9"	2,741 mm
Width	45.8"	1,163 mm
Depth	58.9"	1,496 mm
Empty System Weight	1,497 lbs	680 kg
Full System Weight (Estimated)	2,155 lbs	979 kg
Maximum Floor Load (Estimated)	116 lbs/ft²	563 kg/m²
ELECTRICAL		
Voltage	110V, Single Phase	220V, Single Phase
Power Output (Idle)	100 Watts	
Power Output (MAX)	220 Watts	
Connection Type / Size	1/2" NPT Male Fitting to existing LN2 Supply Line	
LN2 Supply Pressure (Open Valve)	22 - 35 psig	1.52 - 2.41 bar
LN2 Evaporation Rate / day (Nominal)	9.9 L / day	
Static Holding Time Vapor	15 days to -135°C	
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.	
OTHER	Installation and operator training included	
REGULATORY COMPLIANCE	China RoHS, Conflict Materials, EU REACH, EU RoHS, CE Mark Directives	

*All labware and box types should be confirmed