

CryoLite Series

Compact Cryogenic Freezer

Advantages of vapor phase storage have been accepted by more and more users. However, most of existing vapor phase cryogenic freezers are big in size, large in capacity, heavy in weight and expensive in cost. A large part of users are willing to store their samples or products in a vapor freezer, but they do not have so many samples to be stored in a large stainless steel cryogenic freezer. CryoLite series is an ideal solution for these applications.

The innovative capacitance-based level monitoring system allows CryoLite freezers to detect liquid nitrogen level at centimeter accuracy. With auto fill components, it can realize -196°C liquid phase storage or vapor phase storage with -190°C top box temperature.



Features

- Temperature & liquid level monitoring and alarm
- Temperature & level data storage
- Full auto fill
- Compact in size & small footprint
- Light in weight & no floor bearing concerns
- Meets media quantity storage demand, 2ml vials from 2,400 pcs to 6,000 pcs
- Inventory racks for 2ml vials, 5ml vials, 25/50/250ml blood bags
- Lower liquid nitrogen consumption & reduced using cost
- Flexible to store at vapor phase or liquid phase

Advanced Control System

- CryoLite series cryogenic freezer is a compact system integrated with advanced temperature monitoring, liquid nitrogen level monitoring and automatic fill.
- It combines high efficiency of aluminum dewars and advanced touch screen controller.
- Top temperature, bottom temperature, liquid nitrogen level and LN_2 usage is displayed on home page.



Connection (Optional)

- Wi-Fi connection to transfer data to cloud server.
- Globe access on a PC, tablet or smartphone.



Wi-Fi Enabled



Cloud Server



Various Devices



Globe Access

Specification

Model	CryoLite 24S		CryoLite 36S		CryoLite 48S		CryoLite 60S	
Maximum Storage Capacity								
1.2 &2ml vials	1.2 &2ml vials (25/100 well box)	2400	3600	4800	6000			
	Number of racks	6	6	6	6			
	2" Boxes per rack	4	6	8	10			
5ml vials	5ml vials (81well box)	972	1458	1944	2430			
	Number of racks	6	6	6	6			
	3.75" Boxes per rack	2	3	4	5			
25ml blood bag	Numbers of blood bag	168	252	336	420			
	Number of racks	6	6	6	6			
	Layers per rack	2	3	4	5			
	Blood bags per layer	14	14	14	14			
50ml blood bag	Numbers of 50ml blood bag	84	168	168	252			
	Number of racks	6	6	6	6			
	Layers per rack	1	2	2	3			
	Blood bags per layer	14	14	14	14			
250ml blood bag	Numbers of 250ml blood bag	48	48	96	96			
	Number of racks	6	6	6	6			
	Layers per rack	1	1	2	2			
	Blood bags per layer	8	8	8	8			
Dimensions								
LN ₂ capacity (L)		65	120	145	175			
Neck opening (mm)		216	216	216	216			
Overall height (mm)		950	1100	1230	1300			
Outer diameter (mm)		678	678	678	678			
Weight empty (KG)		47	56	57	61			
Weight full (KG)		100	154	176	205			
Inventory rack for cryobox (standard)		6	6	6	6			
Functions								
Display & control		Touch screen controller						
Liquid nitrogen fill		Full auto						
Temperature & liquid level display		Yes						
On-site alarm		Sound & light						
Data		Data storage, USB port, RS485 port						
Power supply		100~240V, 50/60Hz						
Optional Inventory Rack								
Rack for 3.75" cryogenic box (for 5ml vials)		DVR-2-3	DVR-3-3	DVR-4-3	DVR-5-3			
Rack for 25ml blood bag		DBR-25-14-2	DBR-25-14-3	DBR-25-14-4	DBR-25-14-5			
Cassette for 25ml blood bag		BBC-25	BBC-25	BBC-25	BBC-25			
Rack for 50ml blood bag		DBR-50-14-1	DBR-50-14-2	DBR-50-14-2	DBR-50-14-3			
Cassette for 50ml blood bag		BBC-50	BBC-50	BBC-50	BBC-50			
Rack for 250ml blood bag		DBR-250-8-1	DBR-250-8-1	DBR-250-8-2	DBR-250-8-2			
Cassette for 250ml blood bag		BBC-250	BBC-250	BBC-250	BBC-250			
Optional Accessories								
Backup battery		Optional	Optional	Optional	Optional			
Vacuum jacketed hose		Optional	Optional	Optional	Optional			
Roller base		RB-65	RB-65	RB-65	RB-65			
Wi-Fi connection & cloud access		Optional	Optional	Optional	Optional			