

# 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  $-196^{\circ}\text{C}$  liquid phase storage or vapor phase storage with  $-190^{\circ}\text{C}$  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<sub>2</sub> usage is displayed on home page.



### Connection (Optional)

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



Wi-Fi Enabled



Cloud Server



Various Devices



Global Access

# Specification

Model		CryoLite 24S	CryoLite 36S	CryoLite 48S	CryoLite 60S
<b>Maximum Storage Capacity</b>					
1.2 & 2ml vial	1.2 & 2ml vial (100-place box)	2400	3600	4800	6000
	Number of racks	6	6	6	6
	2" Boxes per rack	4	6	8	10
5ml vial	5ml vial (81-place 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 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 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
500ml blood bag	Numbers of blood bag	36	36	36	72
	Number of racks	6	6	6	6
	Layers per rack	1	1	1	2
	Blood bags per layer	6	6	6	6
200ml blood bag	Numbers of blood bag	30	30	60	60
	Number of racks	6	6	6	6
	Layers per rack	1	1	2	2
	Blood bags per layer	5	5	5	5
700ml blood bag	Numbers of blood bag	—	30	30	30
	Number of racks	—	6	6	6
	Layers per rack	—	1	1	1
	Blood bags per layer	—	5	5	5
<b>Dimensions</b>					
LN <sub>2</sub> capacity (L)		65	115	145	175
Neck opening (mm)		216	216	216	216
Overall height (mm)		785	905	1040	1090
Outer diameter (mm)		678	678	678	678
Weight empty/Weight full (KG)		47/100	58/151	63/180	71/213
Inventory rack for cryobox (standard)		6	6	6	6
<b>Functions</b>					
Display & control		Touch screen controller, Full auto, Temperature & liquid level display, Sound & light alarm			
Data		Data storage, USB port, RS485 port			
Power supply		100~240V, 50/60Hz			
<b>Optional Inventory System</b>					
Rack for 3.75" cryogenic box (for 5ml vial)		DVR-2-3	DVR-3-3	DVR-4-3	DVR-5-3
25ml blood bag	Cassette	BBC-25	BBC-25	BBC-25	BBC-25
	Rack	DBR-25-14-2	DBR-25-14-3	DBR-25-14-4	DBR-25-14-5
50ml blood bag	Cassette	BBC-50	BBC-50	BBC-50	BBC-50
	Rack	DBR-50-14-1	DBR-50-14-2	DBR-50-14-2	DBR-50-14-3
250ml blood bag	Cassette	BBC-250	BBC-250	BBC-250	BBC-250
	Rack	DBR-250-8-1	DBR-250-8-1	DBR-250-8-2	DBR-250-8-2
500ml blood bag	Cassette	BBC-500	BBC-500	BBC-500	BBC-500
	Rack	DBR-500-6-1	DBR-500-6-1	DBR-500-6-1	DBR-500-6-2
200ml blood bag	Cassette	BBC-200	BBC-200	BBC-200	BBC-200
	Rack	DBR-200-5-1	DBR-200-5-1	DBR-200-5-2	DBR-200-5-2
700ml blood bag	Cassette	/	BBC-700	BBC-700	BBC-700
	Rack	/	DBR-700-5-1	DBR-700-5-1	DBR-700-5-1
<b>Optional Accessories</b>					
Backup battery/Vacuum jacketed hose/Wi-Fi connection & cloud access		Optional	Optional	Optional	Optional
Roller base		RB-65	RB-65	RB-65	RB-65

\* **25ml blood bag:** Pall MEDSEPTM 25 mL, OriGen CS 25; **50ml blood bag:** Fenwal 4R9951, OriGen CS 50;

**250ml blood bag:** Fenwal 4R9953 & 4R5461, OriGen CS 25 or CryoMACS 50 & 250; **500ml blood bag:** Fenwal 4R9955 & 4R5462, OriGen CS 500;

**200ml blood bag:** Gambro DF-200 or CryoMACS 50 & 250; **700ml blood bag:** Gambro DF-700, OriGen CS 1000 or CryoMACS 500& 750 & 1000.