



Introduction

CryoMaster series liquid nitrogen container combined with the advantages of little nitrogen consumption and medium range storage capacity, meeting different needs of professionals all over the world.

This kind of container provides high efficiency of large capacity sample cryopreservation with light weight and small space occupying. All models include racks, PC cryoboxes and lockable lids.

Key Features

- 1 Equip with racks and box
- 2 Dual-lock construction
- 3 Durable aluminum construction
- 4 Larger storage capacity, less liquid nitrogen consumption
- 5 Compatible with all major storage box brands
- 6 Liquid level monitoring system optional
- 7 Mobile roller bases optional
- 8 5 year vacuum warranty



Real-time Liquid Level Monitoring System

Liquid level monitoring system continuously monitors the temperature inside the container. The liquid level monitoring system matches all CryoMaster models, optimal choice for long time monitoring of samples storage. It realizes reminding users to add liquid nitrogen timely too. There are Cryomonitor 1000/2000 models.



Cryomonitor 1000 liquid level monitor (left)

This system with real-time temperature display:

1. High/low temperature alarm
2. Sensor fault audible and visual alarm

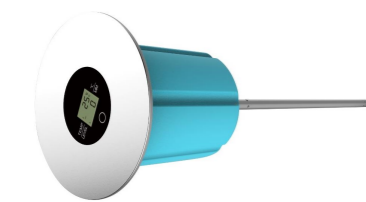


Cryomonitor 2000 Automatically Filling System

It is very useful to fill liquid nitrogen automatically for long time sample storage. Cryomonitor 2000 constantly monitors temperature inside the container, controlling liquid filling solenoid valve open and close, supplying liquid nitrogen timely.

Ultra Low-power Consumption Liquid Level Monitoring System

Data collected by Smart Sensor, and then transferred to cloud storage by Black Box. Users only have to log on Cold Cloud to query and download data. This system is the latest monitoring product easy installation and accurate data.



Model	CryoMonitor 1000P
Temperature Range	-200 ~200°C
Temperature Accuracy	±0.1°C
Temperature Sensor	PT-1000
Liquid Level Range	160~570mm
Liquid Level Tolerance	±10mm
Power Supply	Built-in Nickel Battery
Relay (Optional)	Wi-Fi connection, data transfer, checking and storage

Technical Parameters

Model	CryoMaster 75	CryoMaster 100	CryoMaster 125	CryoMaster 600	CryoMaster 750	CryoMaster 900
Maximum Storage Capacity						
1.2 & 2ml Vials (25/box)	75	100	125	600	750	900
Number of Racks	1	1	1	6	6	6
Boxes Per Rack	3	4	5	4	5	6
25ml blood bag	25ml blood bag			36	36	36
	Number of Racks			18	18	18
	No. of Blood bags Per Rack			2	2	2
Performance						
LN2 Capacity (L)	15	20	25	30	35	47
Static Evaporation Rate (L/day)	0.36	0.37	0.37	0.33	0.36	0.36
Static holdover time (day)	42	54	67	90	97	115
Dimensions						
Neck Opening (mm)	125	125	125	125	125	127
Overall Height (mm)	589	670	700	705	748	754
Outer Diameter (mm)	394	394	394	461	461	416
Weight Empty (kg)	8.5	9.7	10.2	12.9	14.2	15.2
Weight Full (KG)	20.8	26.1	30.7	37.5	42.9	53.74

Model		CryoMaster 2400	CryoMaster 3000	CryoMaster 3600	CryoMaster 4800	CryoMaster 6000
Maximum Storage Capacity						
1.2 & 2ml Vials	1.2 & 2ml Vials (100/box)	2400	3000	3600	4800	6000
	Number of Racks	6	6	6	6	6
	Boxes Per Rack	4	5	6	8	10
25ml blood bag	25ml blood bag	60	90	120	120	150
	Number of Racks	30	30	30	30	30
	No. of Blood bags Per Rack	2	2	3	4	5
50ml blood bag	50ml blood bag		60	120	120	150
	Number of Racks		30	30	30	30
	No. of Blood bags Per Rack		2	3	4	5
Performance						
LN2 Capacity (L)		65	95	115	140	175
Static Evaporation Rate (L/day)		0.78	0.97	0.94	0.96	0.95
Static holdover time (day)		83	98	122	146	184
Dimensions						
Neck Opening (mm)		216	216	216	216	216
Overall Height (mm)		765	790	870	960	1060
Outer Diameter (mm)		681	681	681	681	681
Weight Empty (KG)		38.3	41.3	42.3	48.9	53.8
Weight Full (KG)		91.6	119.2	136.6	163.7	197.3

★ Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the condition of container usage, atmospheric conditions, and manufacturing tolerances.

★★ Normal Working Duration is an arbitrary reference, applying to estimate container performance under normal operating conditions. Actual working time may vary due to atmospheric conditions, container usage history, manufacturing tolerances and individual patterns of usage. Divide static holding days by 1.6, and you get empirical value.