

CryoEssence Series

Dewar with Monitoring

CryoEssence Series Dewars provide secured cryopreservation solution for precious biological samples with real-time monitoring of temperature and liquid nitrogen level. It alarms users with sound & light when working status of container is out of normal range, to avoid irreparable loss of precious samples.

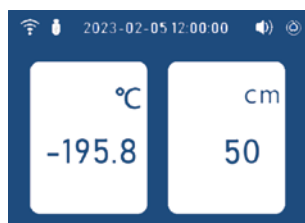
CryoEssence Series Dewars are supplied with round canisters or square racks as standard. Inventory system for 5ml vials and blood bags are optional upon request.



Features

- Temperature & liquid level monitoring
- Ultra-low liquid nitrogen consumption
- Lockable lid to prevent unauthorized access
- Space-saving and light in weight

Interface



- | | |
|----------------------------|-------------------------|
| 1. Wi-Fi connection status | 6. Unit of temperature |
| 2. USB connection status | 7. Temperature display |
| 3. Date & time | 8. Unit of liquid level |
| 4. Sound alarm | 9. Liquid level display |
| 5. Power connection status | |

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		CryoEssence 35C CryoEssence 47C CryoEssence 35R CryoEssence 50R CryoEssence 65R CryoEssence120R CryoEssence175R						
Maximum Storage Capacity								
Straw	1/2 cc straw	9360	9360	—	—	—	—	—
	1/4 cc straw	21000	21000	—	—	—	—	—
	Number of canisters	6, standard	6, standard	—	—	—	—	—
	Canister dimensions (mm)	Φ97 x 276	Φ97 x 276	—	—	—	—	—
1.2 & 2ml vial	1.2 & 2ml vial (25/100-place box)	—	—	750	900	2400	3600	6000
	Number of racks	—	—	6, standard	6, standard	6, standard	6, standard	6, standard
	2" Boxes per rack	—	—	5	6	4	6	10
5ml vial	5ml vial (81-place box)	—	—	—	—	972	1458	2430
	Number of racks	—	—	—	—	6	6	6
	3.75" Boxes per rack	—	—	—	—	2	3	5
25ml blood bag	Numbers of blood bag	—	—	—	—	168	252	420
	Number of racks	—	—	—	—	6	6	6
	Layers per rack	—	—	—	—	2	3	5
	Blood bags per layer	—	—	—	—	14	14	14
50ml blood bag	Numbers of blood bag	—	—	—	—	84	168	252
	Number of racks	—	—	—	—	6	6	6
	Layers per rack	—	—	—	—	1	2	3
250ml blood bag	Blood bags per layer	—	—	—	—	14	14	14
	Numbers of blood bag	—	—	—	—	48	48	96
	Number of racks	—	—	—	—	6	6	6
	Layers per rack	—	—	—	—	1	1	2
500ml blood bag	Blood bags per layer	—	—	—	—	8	8	8
	Numbers of blood bag	—	—	—	—	—	36	60
	Number of racks	—	—	—	—	—	6	6
	Layers per rack	—	—	—	—	—	1	2
200ml blood bag	Blood bags per layer	—	—	—	—	—	6	5
	Numbers of blood bag	—	—	—	—	30	30	60
	Number of racks	—	—	—	—	6	6	6
	Layers per rack	—	—	—	—	1	1	2
700ml blood bag	Blood bags per layer	—	—	—	—	5	5	5
	Numbers of blood bag	—	—	—	—	—	30	30
	Number of racks	—	—	—	—	—	6	6
	Layers per rack	—	—	—	—	—	1	1
700ml blood bag	Blood bags per layer	—	—	—	—	—	5	5
Monitoring								
Temperature & liquid level display & alarm		Temperature & liquid level display, sound & light alarm						
Data		Data storage & USB port, remote alarm contact, RS485 port						
Wi-Fi connection & cloud access		Optional						
Power supply		100~240V, 50/60Hz; optional backup battery						
Performance								
LN2 capacity (L)		35	47	35	50	65	120	175
Static evaporation rate (L/day)		0.36	0.36	0.36	0.36	0.78	0.85	0.87
Static holdover time (day)		97	131	97	139	83	141	201
Dimensions								
Neck opening (mm)		125	127	125	125	216	216	216
Overall height (mm)		805	730	805	820	785	850	1050
Outer diameter (mm)		451	508	451	508	678	678	678
Weight empty/Weight full (kg)		18/46	19.2/57	20.6/49	28.5/69	49.2/102	58.1/155	72.3/214
Inventory rack or canister (standard)		6 canisters	6 canisters	6 racks	6 racks	6 racks	6 racks	6 racks
Optional Inventory System								
25ml blood bag	Cassette	—	—	—	—	BBC-25	BBC-25	BBC-25
	Rack	—	—	—	—	DBR-25-14-2	DBR-25-14-3	DBR-25-14-5
50ml blood bag	Cassette	—	—	—	—	BBC-50	BBC-50	BBC-50
	Rack	—	—	—	—	DBR-50-14-1	DBR-50-14-2	DBR-50-14-3
250ml blood bag	Cassette	—	—	—	—	BBC-250	BBC-250	BBC-250
	Rack	—	—	—	—	DBR-250-8-1	DBR-250-8-1	DBR-250-8-2
500ml blood bag	Cassette	—	—	—	—	—	BBC-500	BBC-500
	Rack	—	—	—	—	—	DBR-500-6-1	DBR-500-5-2
200ml blood bag	Cassette	—	—	—	—	BBC-200	BBC-200	BBC-200
	Rack	—	—	—	—	DBR-200-5-1	DBR-200-5-1	DBR-200-5-2
700ml blood bag	Cassette	—	—	—	—	—	BBC-700	BBC-700
	Rack	—	—	—	—	—	DBR-700-5-1	DBR-700-5-1
Roller base		RB-30	RB-47	RB-30	RB-47	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, CryoMACS 50 & 250, CryoPAC 025B & 050B; **500ml blood bag:** Fenwal 4R9955 & 4R5462, OriGen CS 500, CryoPAC 250B & 500B;

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