



## CryoEssence Series

### Dewar with Monitoring

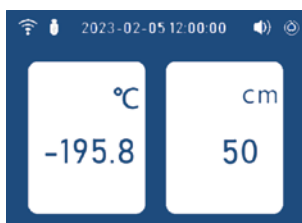
CryoEssence Series Dewars provide secured cryopreservation solution for precious biological samples with real-time monitoring of temperature and liquid nitrogen level. It alarms users with sound & light when working status of container is out of normal range, to avoid irreparable loss of precious samples.

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

### 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
<b>Maximum Storage Capacity</b>							
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
	Number of racks	—	—	6, standard	6, standard	6, standard	6, standard
5ml vial	2" Boxes per rack	—	—	5	6	6	10
	5ml vial (81-place box)	—	—	—	—	972	1458
	Number of racks	—	—	—	—	6	6
	3.75" Boxes per rack	—	—	—	—	2	3
25ml blood bag	Numbers of blood bag	—	—	—	—	168	252
	Number of racks	—	—	—	—	6	6
	Layers per rack	—	—	—	—	2	3
	Blood bags per layer	—	—	—	—	14	14
50ml blood bag	Numbers of blood bag	—	—	—	—	84	168
	Number of racks	—	—	—	—	6	6
	Layers per rack	—	—	—	—	1	2
	Blood bags per layer	—	—	—	—	14	14
250ml blood bag	Numbers of blood bag	—	—	—	—	48	48
	Number of racks	—	—	—	—	6	6
	Layers per rack	—	—	—	—	1	1
	Blood bags per layer	—	—	—	—	8	8
500ml blood bag	Numbers of blood bag	—	—	—	—	—	36
	Number of racks	—	—	—	—	—	6
	Layers per rack	—	—	—	—	—	1
	Blood bags per layer	—	—	—	—	—	6
200ml blood bag	Numbers of blood bag	—	—	—	—	30	30
	Number of racks	—	—	—	—	6	6
	Layers per rack	—	—	—	—	1	1
	Blood bags per layer	—	—	—	—	5	5
700ml blood bag	Numbers of blood bag	—	—	—	—	—	30
	Number of racks	—	—	—	—	—	6
	Layers per rack	—	—	—	—	—	1
	Blood bags per layer	—	—	—	—	—	5
<b>Monitoring</b>							
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						
<b>Performance</b>							
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
<b>Dimensions</b>							
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
<b>Optional Inventory System</b>							
25ml blood bag	Cassette	—	—	—	—	BBC-25	BBC-25
	Rack	—	—	—	—	DBR-25-14-2	DBR-25-14-3
50ml blood bag	Cassette	—	—	—	—	BBC-50	BBC-50
	Rack	—	—	—	—	DBR-50-14-1	DBR-50-14-2
250ml blood bag	Cassette	—	—	—	—	BBC-250	BBC-250
	Rack	—	—	—	—	DBR-250-8-1	DBR-250-8-2
500ml blood bag	Cassette	—	—	—	—	—	BBC-500
	Rack	—	—	—	—	—	DBR-500-6-1
200ml blood bag	Cassette	—	—	—	—	BBC-200	BBC-200
	Rack	—	—	—	—	DBR-200-5-1	DBR-200-5-2
700ml blood bag	Cassette	—	—	—	—	—	BBC-700
	Rack	—	—	—	—	—	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 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.