CryoMajor Series

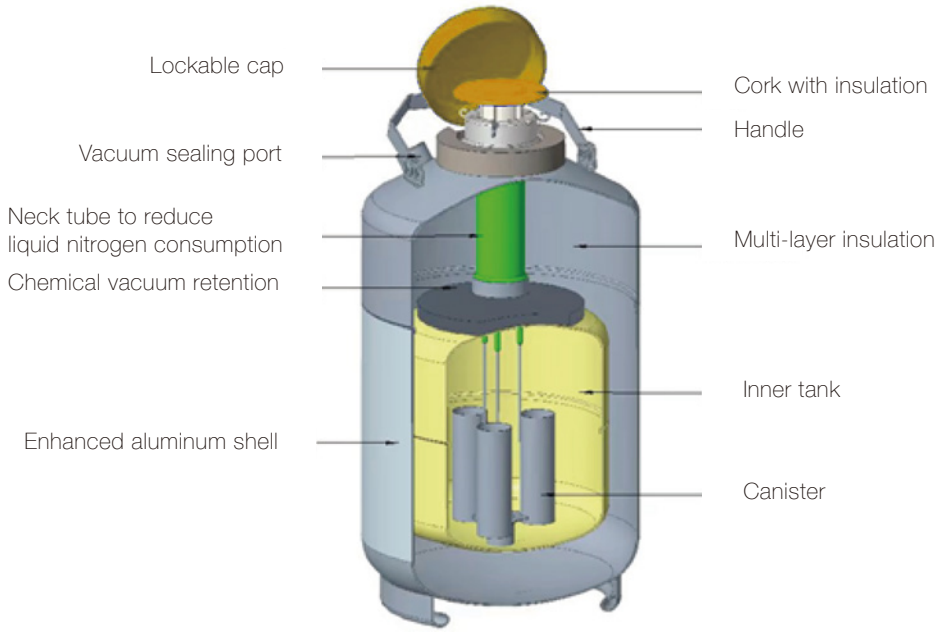
Dewar with Canisters

- CryoMajor Series Dewars are designed for liquid phase storage of biological samples in straws. The liquid nitrogen storage capacity range is from 2 liters to 50 liters. Round canisters are provided as standard.
- CryoMajor series Dewars are space-saving and light in weight. Ultra-low liquid nitrogen consumption is also an advantage of this series.
- Roller base is available for Dewars capacity not less than 30 liters.

Features

- Supplied with round canisters
- Ultra-low liquid nitrogen consumption
- Space-saving and light in weight
- TWO Year Parts Warranty, FIVE Year Vacuum Warranty

Structure Diagram



Specification

Model	CryoMajor 2/35	CryoMajor 3/50	CryoMajor 6/50	CryoMajor 10/50	CryoMajor 10/80
Maximum Storage Capacity					
Number of canister	3	6	6	6	6
Canister type	1-layer	1-layer	1-layer	1-layer	1-layer
Number of 1.8/2ml vials (3pcs/cane)	9	90	90	90	252
Number of straws, 1/2 cc	159	792	792	792	2250
Number of straws, 1/4 cc	345	1716	1716	1716	4986
Performance					
LN_2 capacity (L)	2	3	6	10	10
Static evaporation rate (L/day)	0.11	0.12	0.12	0.12	0.21
Static holdover time (day)	18	26	52	86	48
Dimensions					
Neck opening (mm)	35	50	50	50	80
External diameter (mm)	195	224	300	300	300
Overall height (mm)	420	441	488	566	557
Canisters diameter (mm)	25	38	38	38	63
Canister height (mm)	120	120	120	120	120
Weight empty (kg)	2.9	3.5	5.3	6.0	6.3
Weight full (kg)	4.5	5.9	10.2	14.1	14.4
Accessories					
Lockable lid	Yes	Yes	Yes	Yes	Yes
Protection suit	—	Yes	Yes	Yes	Yes
Roller base (Optional)	—	—	—	—	—
Liquid level & Temperature Monitor (Optional)	—	—	—	—	—

Model	CryoMajor 13/50L	CryoMajor 15/50	CryoMajor 16/80	CryoMajor 20/50L	CryoMajor 20/80L
Maximum Storage Capacity					
Number of canister	6	6	6	6	6
Canister type	2-layer	1-layer	1-layer	2-layer	2-layer
Number of 1.8/2ml vials (6pcs/cane)	180	180	/	180	504
Number of straws, 1/2 cc	1200	792	2250	1200	3984
Number of straws, 1/4 cc	2580	1716	4986	2580	8532
Performance					
LN_2 capacity (L)	13	15	16	20	20
Static evaporation rate (L/day)	0.12	0.11	0.25	0.12	0.22
Static holdover time (day)	108	136	64	167	89
Dimensions					
Neck opening (mm)	50	50	80	50	80
External diameter (mm)	300	396	451	396	396
Overall height (mm)	630	618	466	688	701
Canisters diameter (mm)	38	38	63	38	63
Canister height (mm)	276	120	120	276	276
Weight empty (kg)	8.4	10	12.8	12.2	12.7
Weight full (kg)	19.0	22.2	25.8	28.5	29.0
Accessories					
Lockable lid	Yes	Yes	Yes	Yes	Yes
Protection suit	Yes	Yes	Yes	Yes	Yes
Roller base (Optional)	—	—	—	—	—
Liquid level & Temperature Monitor (Optional)	—	—	—	CryoMonitor 1000TL	CryoMonitor 1000TL

Specification

Model	CryoMajor 30/50L	CryoMajor 30/80L	CryoMajor 35/50L	CryoMajor 35/80L
Maximum Storage Capacity				
Number of canister	6	6	6	6
Canister type	2-layer	2-layer	2-layer	2-layer
Number of 1.8/2ml vials (6pcs/cane)	180	504	180	504
Number of straws, 1/2 cc	1200	3984	1200	3984
Number of straws, 1/4 cc	2580	8532	2580	8532
Performance				
LN_2 capacity (L)	31.5	31.5	35.5	35.5
Static evaporation rate (L/day)	0.12	0.21	0.12	0.20
Static holdover time (day)	254	147	286	178
Dimensions				
Neck opening (mm)	50	80	50	80
External diameter (mm)	451	451	451	451
Overall height (mm)	681	681	735	760
Canisters diameter (mm)	38	63	38	63
Canister height (mm)	276	276	276	276
Weight empty (kg)	15.3	15.8	16.3	17.2
Weight full (kg)	40.9	41.4	45.2	46.1
Accessories				
Lockable lid	Yes	Yes	Yes	Yes
Protection suit	Yes	Yes	Yes	Yes
Roller base (Optional)	RB-30	RB-30	RB-30	RB-30
Liquid level & Temperature Monitor (Optional)	CryoMonitor 1000TL	CryoMonitor 1000TL	CryoMonitor 1000TL	CryoMonitor 1000TL

Model	CryoMajor 50B/50L	CryoMajor 35/125L	CryoMajor 35/125TL	CryoMajor 47/127L	CryoMajor 47/127TL
Maximum Storage Capacity					
Number of canister	6	6	10	6	10
Canister type	2-layer	2-layer	2-layer	2-layer	2-layer
Number of 1.8/2ml vials (6pcs/cane)	180	1332	1200	1332	1200
Number of straws, 1/2 cc	1200	9360	7300	9360	7300
Number of straws, 1/4 cc	2580	16400	16400	21000	16400
Performance					
LN_2 capacity (L)	50	35.5	35.5	47	47
Static evaporation rate (L/day)	0.24	0.36	0.36	0.36	0.36
Static holdover time (day)	208	99	99	131	131
Dimensions					
Neck opening (mm)	50	125	125	127	127
External diameter (mm)	508	451	451	508	508
Overall height (mm)	777	805	805	730	730
Canisters diameter (mm)	38	97	72	97	72
Canister height (mm)	276	276	276	276	276
Weight empty (kg)	21.0	18.0	18.0	19.2	19.2
Weight full (kg)	61.7	46.9	46.9	57.5	57.5
Accessories					
Lockable lid	Yes	Yes	Yes	Yes	Yes
Protection suit	Yes	Yes	Yes	—	—
Roller base (Optional)	RB-47	RB-30	RB-30	RB-47	RB-47
Liquid level & Temperature Monitor (Optional)	CryoMonitor 1000TL	CryoMonitor 1000TL, CryoMonitor 2000TL			