

Introduction

CryoMajor series are economical small and medium size liquid nitrogen containers for long term static state storage. CryoMajor series are made of high strength and lightweight aluminum alloy. There is multilayer superior performance thermal insulation inside.

Various accessories are optional. Mainly apply to animal husbandry and laboratories.

Key Features

- 1** High strength and lightweight aluminum construction
- 2** Ultra-low evaporation losses
- 3** Numbered index location points for canisters
- 4** Mobile roller bases optional
- 5** Lockable lids
- 6** Straw storage
- 7** LN₂ pump optional
- 8** 5 year vacuum warranty

Important Accessories

- 1. 600mm Liquid Level Ruler
- 2. 1000mm Liquid Level Ruler
- 3. LN₂ Dispenser
- 4. 2-level canister



Technical Parameters

Model	CryoMajor 2/30	CryoMajor 2/35	CryoMajor 3/50	CryoMajor 6/50	CryoMajor 8/80	CryoMajor 10/50
Maximum Storage Capacity						
Number of Canisters	3	3	6	6	6	6
Number of Straws (0.5ml)	90	165	792	792	2244	792
Number of Straws (0.25ml)	204	330	1788	1788	5022	1788
Performance						
Liquid N2 Capacity(L)	2	2	3.1	6	8	10
Static Evaporation(L/D)	0.07	0.08	0.12	0.12	0.21	0.12
Static Holdover time(Day)	28	24	26	52	38	86
Dimensions						
Neck Diameter (mm)	30	35	50	50	80	50
Overall Height(mm)	399	428	435	482	502	552
External Diameter (mm)	223	204	223	300	300	300
Canister Diameter(mm)	19	25	38	38	63	38
Canister Height (mm)	120	120	120	120	120	120
Weight Empty (KG)	2.8	2.6	3.1	4.8	5.9	5.9
Weight Full (KG)	4.4	4.2	5.6	9.7	12.5	14.1

Model	CryoMajor 10/80	CryoMajor13/50L	CryoMajor15/50	CryoMajor15/80	CryoMajor 20/50(L)
Maximum Storage Capacity					
No. of Canister	6	6	6	6	6
No. of Straws	0.5ml	2244	792	2244	792
(1-level Canister)	0.25ml	5022	1788	5022	1788
No. of Straws	0.5ml	1284			1284
(2-level Canister)	0.25ml	2832			2832
Performance					
Liquid Nitrogen Capacity (L)	10	13	15	15	20
Static Evaporation (L/day)	0.21	0.12	0.11	0.21	0.12
Static Holdover time(Day)	48	109	134	71	168
Dimensions					
Neck Opening (mm)	80	50	50	80	50
Overall Height (mm)	557	623	591	595	672
External Diameter (mm)	300	310	394	394	394
Canister External Diameter (mm)	63	38	38	63	38
Canister Height (mm)	120	276	120	120	120/276
Weight Empty (kg)	5.9	6.3	8.5	8.6	9.5
Weight Liquid Full (kg)	14.1	16.6	18.2	18.2	22.3

Technical Parameters

Model	CryoMajor 20/80(L)	CryoMajor 25/50(L)	CryoMajor 25/80(L)	CryoMajor 30/50(L)	CryoMajor 30/80(L)
Maximum Storage Capacity					
No. of Canister	6	6	6	6	6
No. of Straws	0.5ml	2244	792	2244	792
(1-level Canister)	0.25ml	5022	1788	5022	1788
No. of Straws	0.5ml	3624	1284	3624	1284
(2-level Canister)	0.25ml	8460	2832	8460	2832
Performance					
Liquid Nitrogen Capacity (L)	20	25	25	31.5	31.5
Static Evaporation (L/day)	0.21	0.12	0.21	0.12	0.21
Static Holdover time(Day)	95	208	119	254	147
Dimensions					
Neck Opening (mm)	80	50	80	50	80
Overall Height (mm)	676	700	705	706	710
External Diameter (mm)	394	394	394	462	462
Canister External Diameter (mm)	63	38	63	38	63
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	9.5	10.7	10.9	12.9	13.1
Weight Liquid Full (kg)	22.3	26.4	26.4	31.7	31.7

Model	CryoMajor 30/125(L)	CryoMajor 35/50(L)	CryoMajor35/125(L)	CryoMajor47/127(L)	CryoMajor47/127T(L)	CryoMajor50B/125(L)
Maximum Storage Capacity						
No. of Canister	6	6	6	6	10	6
No. of Straws	0.5ml	5124	792	5124	5124	4310
(1-level Canister)	0.25ml	11952	1788	11952	11952	10320
No. of Straws	0.5ml	9048	1284	9048	9048	8200
(2-level Canister)	0.25ml	19944	2832	19944	19944	17810
Performance						
Liquid Nitrogen Capacity (L)	31.5	35.5	35.5	47	47	50
Static Evaporation (L/day)	0.35	0.12	0.37	0.36	0.36	0.45
Static Holdover time(Day)	90	286	97	130	130	110
Dimensions						
Neck Opening (mm)	125	50	125	127	127	125
Overall Height (mm)	705	750	748	718	718	818
External Diameter (mm)	462	462	462	508	508	462
Canister External Diameter (mm)	97	38	97	97	71	97
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	12.9	14.2	14.2	15	15	15.2
Weight Liquid Full(kg)	38.7	35.0	43.31	53.54	53.54	56.2

Remark:

1. Model number end without "L" are supplied with 120ml length canister. One layer of straws can be loaded.
2. Model number end with "L" are supplied with 276ml length canister. Two layers of straws can be loaded.
3. For example, CryoMajor30/50 is supplied with canister height 120mm, while CryoMajor 30/50L is supplied with canister height 276mm.

Cane



CryoMajor series will be also used to store 0.5ML-5ML vials with cane. The storage quantity shown in the table below:

Cane Parameters

Vials Model	Length 120mm, Diameter 38mm (50 neck opening)				Length 276mm, Diameter 38mm (50 neck opening)			
	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank
0.5ml	3	3	9	54	3	6	18	108
1.5ml	3	3	9	54	3	6	18	108
2ml	3	3	9	54	3	6	18	108
3ml	3	3	9	54	3	6	18	108
5ml	3	1	3	18	3	3	9	54

Vials Model	Length 120mm, Diameter 63mm (80 neck opening)				Length 276mm, Diameter 63mm (80 neck opening)			
	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank
0.5ml	11	3	33	198	11	6	66	396
1.5ml	11	3	33	198	11	6	66	396
2ml	11	3	33	198	11	6	66	396
3ml	11	3	33	198	11	6	66	396
5ml	11	1	11	66	11	3	33	198

Vials Model	Length 120mm, Diameter 97mm (125 neck opening)				Length 276mm, Diameter 97mm (125 neck opening)			
	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank	Number of Cane/ Canister	Number of Vials/ Cane	Number of Vials/ Canister	Number of Vials/ Tank
0.5ml	27	3	81	486	27	6	162	972
1.5ml	27	3	81	486	27	6	162	972
2ml	27	3	81	486	27	6	162	972
3ml	27	3	81	486	27	6	162	972
5ml	27	1	27	162	27	3	81	486