

## Introduction

CryoMajor Series liquid nitrogen containers are economical small and medium size liquid nitrogen containers for long term static state storage. CryoMajor Series include two types, large capacity and long shelf life. CryoMajor Series are made of high strength and light-weight aluminum alloy. There is multilayer superior performance thermal insulation inside. Various accessories are optional. Mainly apply to animal husbandry and laboratories.

# CryoMajor Series

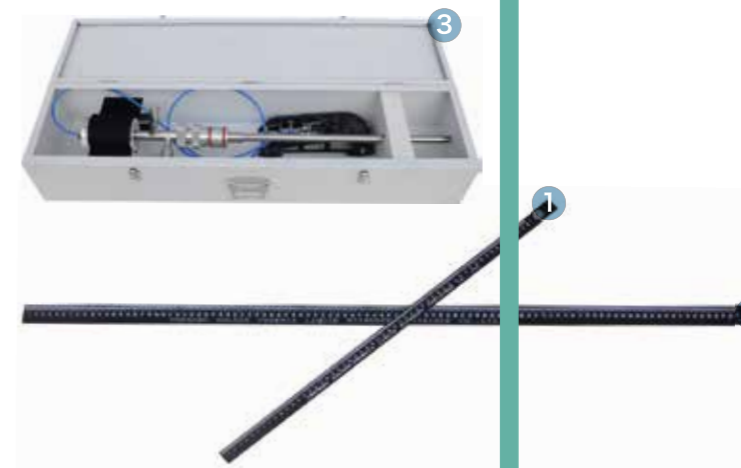


## Key Features

- 1 High strength and light-weight aluminum construction
- 2 Ultra-low evaporation loss
- 3 Numbered index location points for canisters(optional)
- 4 Mobile roller bases (optional)
- 5 Lockable lid
- 6 Straw storage
- 7 LN<sub>2</sub> pump (optional)
- 8 5 year vacuum warranty

## Important Accessories

- 1. 600mm Liquid Level Ruler
- 2. 1000mm Liquid Level Ruler
- 3. LN<sub>2</sub> Dispenser



# Technical Specification

Model	CryoMajor 2/35	CryoMajor 3/50	CryoMajor 6/50	CryoMajor 8/80	CryoMajor 10/50	CryoMajor 13/50
<b>Maximum Storage Capacity</b>						
Number of Canisters	3	6	6	6	6	6
Number of Straws (0.5ml)	165	792	792	2244	792	792
Number of Straws (0.25ml)	330	1788	1788	5022	1788	1788
<b>Performance</b>						
Liquid N2 Capacity(L)	2	3.1	6	8	10	13
Static Evaporation(L/D)	0.08	0.12	0.12	0.21	0.12	0.12
Static Holdover time(Day)	24	26	52	38	86	109
<b>Unit Dimensions</b>						
Neck Diameter (mm)	35	50	50	80	50	50
Overall Height(mm)	428	435	482	502	552	623
External Diameter (mm)	204	223	300	300	300	310
Canister Diameter(mm)	25	38	38	63	38	38
Canister Height (mm)	110	110	110	110	110	110
Weight Empty (KG)	2.6	3.1	4.8	5.9	5.9	6.3
Weight Full (KG)	4.2	5.6	9.7	12.5	14.1	15.9

Model	CryoMajor13/50L	CryoMajor15/50	CryoMajor15/80	CryoMajor 16/50(L)	CryoMajor 20/50(L)
<b>Maximum Storage Capacity</b>					
No. of Canister	6	6	6	6	6
No. of Straws (1-level Canister)	0.5ml	—	792	2244	—
	0.25ml	—	1788	5022	—
No. of Straws (2-level Canister)	0.5ml	1284	—	—	1284
	0.25ml	2832	—	—	2832
<b>Performance</b>					
Liquid Nitrogen Capacity (L)	13	15	15	16	20
Static Evaporation (L/day)	0.12	0.11	0.21	0.12	0.12
Static Holdover time(Day)	109	134	71	140	168
<b>Unit Dimensions</b>					
Neck Opening (mm)	50	50	80	50	50
Overall Height (mm)	623	591	595	672	672
External Diameter (mm)	310	394	394	394	394
Canister External Diameter (mm)	38	38	63	38	38
Canister Height (mm)	276	120	120	120/276	120/276
Weight Empty (kg)	6.3	8.5	8.6	9.5	9.5
Weight Liquid Full (kg)	16.6	18.2	18.2	22.3	22.3

# Technical Specification

Model	CryoMajor 25/50(L)	CryoMajor 30/50(L)	CryoMajor 30/80(L)	CryoMajor 30/125(L)	CryoMajor 35/50(L)
<b>Maximum Storage Capacity</b>					
No. of Canister	6	6	6	6	6
No. of Straws (1-level Canister)	0.5ml	792	792	2244	5124
	0.25ml	1788	1788	5022	11952
No. of Straws (2-level Canister)	0.5ml	1284	1284	3624	9048
	0.25ml	2832	2832	8460	19944
<b>Performance</b>					
Liquid Nitrogen Capacity (L)	25	31.5	31.5	31.5	35.5
Static Evaporation (L/day)	0.12	0.12	0.21	0.35	0.12
Static Holdover time(Day)	208	254	147	90	286
<b>Unit Dimensions</b>					
Neck Opening (mm)	50	50	80	125	50
Overall Height (mm)	700	706	710	705	750
External Diameter (mm)	394	462	462	462	462
Canister External Diameter (mm)	38	38	63	97	38
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	10.7	12.9	13.1	12.9	14.2
Weight Liquid Full (kg)	26.4	31.7	31.7	38.7	35.0

Model	CryoMajor 35/80(L)	CryoMajor35/125T(L)	CryoMajor47/127(L)	CryoMajor47/127T(L)	CryoMajor50B/50(L)	CryoMajor50B/125(L)
<b>Maximum Storage Capacity</b>						
No. of Canister	6	10	6	10	6	6
No. of Straws (1-level Canister)	0.5ml	2244	8540	5124	8540	792
	0.25ml	5022	19920	11952	19920	1788
No. of Straws (2-level Canister)	0.5ml	9048	15080	9048	15080	1284
	0.25ml	3624	33240	19944	33240	2832
<b>Performance</b>						
Liquid Nitrogen Capacity (L)	35.5	35.5	47	47	50	50
Static Evaporation (L/day)	0.12	0.36	0.36	0.36	0.23	0.45
Static Holdover time(Day)	286	97	130	130	213	110
<b>Unit Dimensions</b>						
Neck Opening (mm)	50	125	125	127	50	125
Overall Height (mm)	750	748	718	718	811	818
External Diameter (mm)	462	462	508	508	462	462
Canister External Diameter (mm)	38	70	97	72	63	97
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	14.2	14.2	15	15	15.2	15.4
Weight Liquid Full(kg)	35.0	46.2	53.54	55.6	55.4	56.2

Remark:  
 1. Model number end without "L" are supplied with 110mm or 120mm length canister. One layer of straws can be loaded.  
 2. Model number end with "L" are supplied with 260mm or 276mm 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.

# New Products and Canes

# Technical Specification



(CryoMajor 35/125T)

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

Vials Model	Length 110mm and 120mm, Diameter 38mm(50 neck opening)				Length 260mm and 276mm, Diameter 38(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	4	3	12	72	4	5	20	120
1.5ml	4	3	12	72	4	5	20	120
2ml	4	3	12	72	4	5	20	120
3ml	4	3	12	72	4	5	20	120
5ml	4	1	4	24	4	3	2	72

Vials Model	Length 110mm and 120mm, Diameter 63mm(80 neck opening)				Length 260mm and 276mm, Diameter 63(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	16	3	48	288	16	5	80	480
1.5ml	16	3	48	288	16	5	80	480
2ml	16	3	48	288	16	5	80	480
3ml	16	3	48	288	16	5	80	480
5ml	16	1	16	96	16	3	48	288

Vials Model	Length 110mm and 120mm, Diameter 97mm(125 neck opening)				Length 260mm and 276mm, Diameter 97(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	40	3	120	720	40	5	200	1200
1.5ml	40	3	120	720	40	5	200	1200
2ml	40	3	120	720	40	5	200	1200
3ml	40	3	120	720	40	5	200	1200
5ml	40	1	40	240	40	3	120	720