

# CryoMajor Series 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.

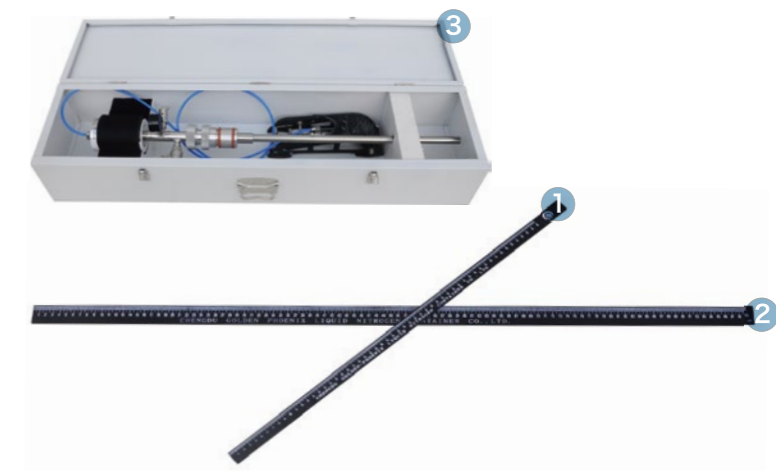


## Key Features

- 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 10/50	CryoMajor15/50
<b>Maximum Storage Capacity</b>					
Number of Canisters	3	6	6	6	6
Number of Straws (0.5ml)	165	792	792	792	792
Number of Straws (0.25ml)	330	1788	1788	1788	1788
<b>Performance</b>					
Liquid N2 Capacity(L)	2	3	6	10	15
Static Evaporation(L/D)	0.08	0.12	0.12	0.12	0.11
Static Holdover time(Day)	24	26	52	86	134
<b>Unit Dimensions</b>					
Neck Diameter (mm)	35	50	50	50	50
Overall Height(mm)	428	435	482	552	591
External Diameter (mm)	204	223	300	300	394
Canister Diameter(mm)	25	38	38	38	38
Canister Height (mm)	120	120	120	120	120
Weight Empty (KG)	2.6	3.1	4.8	5.9	8.5
Weight Full (KG)	4.2	5.6	9.7	14.1	18.2

Model	CryoMajor13/50L	CryoMajor 20/50 CryoMajor 20/50L	CryoMajor 20B/50	CryoMajor 25/50 CryoMajor 25/50L	CryoMajor 30/50 CryoMajor 30/50L
<b>Maximum Storage Capacity</b>					
No. of Canister	6	6	6	6	6
No. of Straws (1-level Canister)	0.5ml	—	792	792	792
	0.25ml	—	1788	1788	1788
No. of Straws (2-level Canister)	0.5ml	1284	1284	1284	1284
	0.25ml	2832	2832	2832	2832
<b>Performance</b>					
Liquid Nitrogen Capacity (L)	13	20	20	25	31.5
Static Evaporation (L/day)	0.12	0.12	0.20	0.14	0.12
Static Holdover time(Day)	108	166	101	180	254
<b>Unit Dimensions</b>					
Neck Opening (mm)	50	50	50	50	50
Overall Height (mm)	623	672	672	700	705
External Diameter (mm)	310	394	394	394	462
Canister External Diameter (mm)	38	38	38	38	38
Canister Height (mm)	276	120/276	120/276	120/276	120/276
Weight Empty (kg)	6.3	9.5	9.5	10.7	12.9
Weight Liquid Full (kg)	16.7	22.3	22.3	30.7	38.1

# Technical Specification

Model	CryoMajor 30B/50	CryoMajor 30/80L	CryoMajor 30/125	CryoMajor 35/50 CryoMajor 35/50L	CryoMajor 35B/80	CryoMajor 35/80L
<b>Maximum Storage Capacity</b>						
No. of Canister	6	6	6	6	6	6
No. of Straws (1-level Canister)	0.5ml	792	—	—	792	2244
	0.25ml	1788	—	—	1788	5022
No. of Straws (2-level Canister)	0.5ml	1284	3624	9048	1284	3624
	0.25ml	2832	8460	19944	2832	8460
<b>Performance</b>						
Liquid Nitrogen Capacity (L)	31.5	31.5	31.5	35.5	35.5	35.5
Static Evaporation (L/day)	0.2	0.21	0.35	0.12	0.30	0.12
Static Holdover time(Day)	159	147	90	286	119	286
<b>Unit Dimensions</b>						
Neck Opening (mm)	50	80	125	50	80	50
Overall Height (mm)	705	710	705	750	753	750
External Diameter (mm)	462	462	462	462	462	462
Canister External Diameter (mm)	38	63	97	38	63	38
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	12.9	13.1	12.9	14.2	14.5	14.2
Weight Liquid Full (kg)	38.1	38.3	38.1	42.2	42.5	42.2

Model	CryoMajor35/125 CryoMajor35/125L	CryoMajor47/127L	CryoMajor47/127T CryoMajor47/127TL	CryoMajor50B/50 CryoMajor50B/50L	CryoMajor50B/125L
<b>Maximum Storage Capacity</b>					
No. of Canister	6	6	10	6	6
No. of Straws (1-level Canister)	0.5ml	5124	—	8540	792
	0.25ml	11640	—	19920	1788
No. of Straws (2-level Canister)	0.5ml	9048	9048	15080	1284
	0.25ml	20760	19944	33240	2832
<b>Performance</b>					
Liquid Nitrogen Capacity (L)	35.5	47	47	50	50
Static Evaporation (L/day)	0.41	0.36	0.36	0.23	0.45
Static Holdover time(Day)	86	130	130	213	110
<b>Unit Dimensions</b>					
Neck Opening (mm)	125	125	127	50	125
Overall Height (mm)	748	718	718	811	818
External Diameter (mm)	462	508	508	462	462
Canister External Diameter (mm)	97	104	72	63	97
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276
Weight Empty (kg)	14.6	15	15	15.2	15.4
Weight Liquid Full(kg)	43.0	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



(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:

# Technical Specification

Canister Model		Length 120mm, Diameter 38mm(50 neck opening)			Length 276mm, Diameter 38(50 neck opening)			
Vials Model	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	5	3	15	90	5	6	30	180
1.5ml	5	3	15	90	5	6	30	180
2ml	5	3	15	90	5	6	30	180
3ml	5	3	15	90	5	6	30	180
5ml	5	1	5	30	5	3	5	90

Canister Model		Length 120mm, Diameter 63mm(80 neck opening)			Length 276mm, Diameter 63(80 neck opening)			
Vials Model	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	6	96	576
1.5ml	16	3	48	288	16	6	96	576
2ml	16	3	48	288	16	6	96	576
3ml	16	3	48	288	16	6	96	576
5ml	16	1	16	96	16	3	48	288

Canister Model		Length 120mm, Diameter 72mm(127 neck opening)			Length 276mm, Diameter 72(127 neck opening)			
Vials Model	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	21	3	63	630	21	6	126	1260
1.5ml	21	3	63	630	21	6	126	1260
2ml	21	3	63	630	21	6	126	1260
3ml	21	3	63	630	21	6	126	1260
5ml	21	1	21	210	21	3	63	630

Canister Model		Length 120mm, Diameter 97mm(125 neck opening)			Length 276mm, Diameter 97(125 neck opening)			
Vials Model	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	6	240	1440
1.5ml	40	3	120	720	40	6	240	1440
2ml	40	3	120	720	40	6	240	1440
3ml	40	3	120	720	40	6	240	1440
5ml	40	1	40	240	40	3	120	720

Canister Model		Length 120mm, Diameter 104mm(127 neck opening)			Length 276mm, Diameter 104(127 neck opening)			
Vials Model	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	---	---	---	---	---	---	---	---
1.5ml	46	3	138	828	46	6	276	1656
2ml	46	3	138	828	46	6	276	1656
3ml	46	3	138	828	46	6	276	1656
5ml	46	1	46	276	46	3	138	828