

Liquid Nitrogen Storage Systems



**High Capacity Series for
Storage or Transport
(Round Canisters)**

Product Information

High Capacity Series for Storage or Transport (Round Canisters) provides two cryopreservation solutions for long-term static storage and transportation of biological samples.

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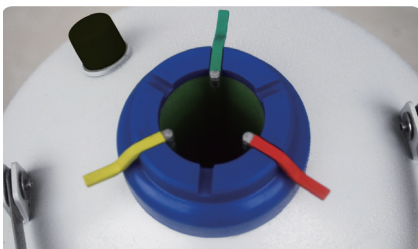
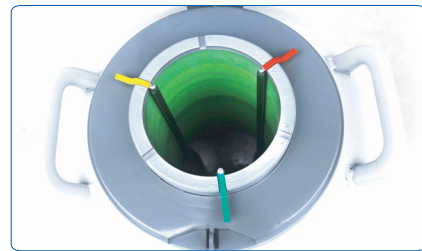
Key Features

- Strong and lightweight aluminium construction
- High thermal efficiency
- Numbered index location points for canisters
- Roller bases available
- 5 Year Vacuum Warranty & Extended Hold Time
- Round Canisters for Straw Storage
- Ultra-low evaporation loss
- Heavy duty lockable enclosure offers excellent security
- LN₂ dispense pump available

Product Advantages

Narrow neck design and excellent thermal conductivity reduces evaporation loss of liquid nitrogen to extend storage times.

Large-capacity models have wider necks for easy access to biological samples.



Long-term cryopreservation models have narrower necks with less heat intrusion.

Product Parameters



Model		YDS-2-30	YDS-2-35	YDS-3	YDS-6	YDS-10	YDS-10-80
Maximum Capacity	No. of Canister	3 (3)	3 (3)	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	90	165	792	792	792	2244
	No. of Straws (Single Layer) (0.25ml each canister)	204	330	1788	1788	1788	5022
	No. of Straws (Double Layer) (0.5ml each canister)	-	-	-	-	-	-
	No. of Straws (Double Layer) (0.25ml each canister)	-	-	-	-	-	-
Performance	Volume of LN ₂ (L)	2	2	3	6	10	10
	Static Evaporation* (L/Day)	0.07	0.08	0.12	0.12	0.12	0.21
	Static Holding Time** (Day)	28	24	26	52	86	48
Dimensions	Opening Diameter (mm)	30	35	50	50	50	80
	Height (mm)	415	435	445	495	565	567
	Outside Diameter (mm)	223	204	223	300	300	300
	Canister Outside Diameter (mm)	19	25	38	38	38	63
	Outside Height (mm)	120	120	120	120	120	120
	Empty Weight (kg)	2.8	2.6	3.1	4.8	6.1	6.2
	Full Weight (kg)	4.5	4.4	6	9.9	14.5	14.7
	Shipping Weight (kg)	5.1	4.9	5.8	8	9	9.3

Model		YDS-10-125	YDS-13	YDS-15	YDS-20	YDS-30
Maximum Capacity	No. of Canister	1 (0)	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	854	-	792	792	792
	No. of Straws (Single Layer) (0.25ml each canister)	1940	-	1788	1788	1788
	No. of Straws (Double Layer) (0.5ml each canister)	-	1284	-	1284	1284
	No. of Straws (Double Layer) (0.25ml each canister)	-	2832	-	2832	2832
Performance	Volume of LN ₂ (L)	10	13	15	20	30
	Static Evaporation* (L/Day)	0.42	0.12	0.11	0.12	0.12
	Static Holding Time** (Day)	24	109	134	168	254
Dimensions	Opening Diameter (mm)	125	50	50	50	50
	Height (mm)	625	635	610	700	725
	Outside Diameter (mm)	300	310	394	394	462
	Canister Outside Diameter (mm)	97	38	38	38	38
	Outside Height(mm)	120	276	120	120/276	120/276
	Empty Weight (kg)	6.3	6.3	8.5	9.5	12.9
	Full Weight (kg)	15.1	17.3	20.5	28.1	36.6
	Shipping Weight (kg)	8.6	11	13	15	18

Model		YDS-30 -80	YDS-30 -125	YDS-35	YDS-35 -80	YDS-35 -125	YDS-47 -127
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)	6 (0)	6 (0)	10 (10)
	No. of Straws (Single Layer) (0.5ml each canister)	2244	5124	792	2244	5124	-
	No. of Straws (Single Layer) (0.25ml each canister)	5022	11640	1788	5022	11640	-
	No. of Straws (Double Layer) (0.5ml each canister)	3624	-	1284	3624	9048	8200
	No. of Straws (Double Layer) (0.25ml each canister)	8460	-	2832	8460	20760	16400
Performance	Volume of LN ₂ (L)	30	30	35	35	35	47
	Static Evaporation* (L/Day)	0.21	0.35	0.12	0.22	0.37	0.36
	Static Holding Time** (Day)	147	90	286	159	97	130
Dimensions	Opening Diameter (mm)	80	125	50	80	125	127
	Height (mm)	729	725	765	768	765	740
	Outside Diameter (mm)	462	462	462	462	462	508
	Canister Outside Diameter (mm)	63	97	38	63	97	72
	Outside Height (mm)	120/276	120	120/276	120/276	120/276	276
	Empty Weight (kg)	13	13	14.2	14.5	14.6	18.2
	Full Weight (kg)	37	38.9	42.7	42.9	43.2	56.2
	Shipping Weight (kg)	18.3	19.3	20	20.7	22	28

Model		YDS-20B	YDS-30B	YDS-35B
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	792	792	792
	No. of Straws (Single Layer) (0.25ml each canister)	1788	1788	1788
	No. of Straws (Double Layer) (0.5ml each canister)	1284	1284	1284
	No. of Straws (Double Layer) (0.25ml each canister)	2832	2832	2832
Performance	Volume of LN ₂ (L)	20	30	35
	Static Evaporation* (L/Day)	0.2	0.2	0.2
	Static Holding Time** (Day)	101	159	179
Dimensions	Opening Diameter (mm)	50	50	50
	Height (mm)	700	725	765
	Outside Diameter (mm)	394	462	462
	Canister Outside Diameter (mm)	38	38	38
	Outside Height (mm)	120/276	120/276	120/276
	Empty Weight (kg)	9.5	12.9	14.2
	Full Weight (kg)	27.9	37.1	42.8
	Shipping Weight (kg)	15.1	18.3	20.1

Model		YDS-35B-80	YDS-35B-125	YDS-50B	YDS-50B-125
Maximum Capacity	No. of Canister	6 (0)	6 (0)	6 (0)	6 (0)
	No. of Straws (Single Layer) (0.5ml each canister)	2244	5124	792	5124
	No. of Straws (Single Layer) (0.25ml each canister)	5022	11640	1788	11640
	No. of Straws (Double Layer) (0.5ml each canister)	3624	9048	1284	9048
	No. of Straws (Double Layer) (0.25ml each canister)	8460	20760	2832	20760
Performance	Volume of LN ₂ (L)	35	35	50	50
	Static Evaporation* (L/Day)	0.3	0.41	0.24	0.45
	Static Holding Time** (Day)	119	86	213	110
Dimensions	Opening Diameter (mm)	80	125	50	125
	Height (mm)	768	765	825	830
	Outside Diameter (mm)	462	462	462	462
	Canister Outside Diameter (mm)	63	97	38	97
	Outside Height (mm)	120/276	120/276	120/276	120/276
	Empty Weight (kg)	14.5	14.6	17.2	17.3
	Full Weight (kg)	43	43.5	60.3	62
	Shipping Weight (kg)	20.7	22	24	25.4

A(B): A for maximum number of canisters, B for number of canisters in standard configuration

* Static evaporation and static holding time are theoretical values. Actual evaporation and holding time are affected by usage, atmospheric conditions and

** Static Holding Time: the amount of days it takes for all of the LN to evaporate out after container is filled with liquid nitrogen to pre-cool and reach thermal equilibrium and the liquid nitrogen filling rate reaches 100% under standard atmospheric condition.
manufacturing tolerances.

High Capacity Series Accessories and Storage Methods

Vials (0.5/1.5/2 /3ml)



Vials (5ml)



Canister	Canister Height 120mm, Diameter 38mm (50mm neck)		
	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	3	4	12
1.5 ml	3	4	12
2 ml	3	4	12
3 ml	3	4	12
5 ml	1	4	4

Canister	Canister Height 120mm, Diameter 63mm (80mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	3	16	48
1.5 ml	3	16	48
2 ml	3	16	48
3 ml	3	16	48
5 ml	1	16	16

Canister	Canister Height 120mm, Diameter 72mm (127mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	3	21	63
1.5 ml	3	21	63
2 ml	3	21	63
3 ml	3	21	63
5 ml	1	21	21

Canister	Canister Height 120mm, Diameter 72mm (127mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	-	-	-
1.5 ml	3	40	120
2 ml	3	40	120
3 ml	3	40	120
5 ml	1	40	40

Canister	Canister Height 120mm, Diameter 72mm (127mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	-	-	-
1.5 ml	3	46	138
2 ml	3	46	138
3 ml	3	46	138
5 ml	1	46	46

Canister	Canister Height 276mm, Diameter 38mm (50mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	6	4	24
1.5 ml	6	4	24
2 ml	3	4	24
3 ml	6	4	24
5 ml	3	4	12

Canister	Canister Height 276mm, Diameter 63mm (80mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	6	16	96
1.5 ml	6	16	96
2 ml	3	16	96
3 ml	6	16	96
5 ml	3	16	96

Canister	Canister Height 276mm, Diameter 72mm (127mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	6	21	126
1.5 ml	6	21	126
2 ml	3	21	126
3 ml	6	21	126
5 ml	3	21	63

Canister	Canister Height 276mm, Diameter 97mm (125mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	-	-	-
1.5 ml	6	40	240
2 ml	3	40	240
3 ml	6	40	240
5 ml	3	40	120

Canister	Canister Height 276mm, Diameter 104mm (127mm neck)		
Vials	Vials / Per Vial Cane	Vials Cane /Per Canister	Vials / Per Canister
0.5 ml	-	-	-
1.5 ml	6	46	276
2 ml	3	46	276
3 ml	6	46	276
5 ml	3	46	138