

Haier Liquid Nitrogen Storage System

BIO Series

Numbered Index Canister Locations

High Capacity

High Thermal Efficiency

5 Year Vacuum Warranty

Extended Hold Time

LN₂ Dispenser

Straws

Lockable

Roller Bases



BIO Series



Introduction

BIO Series provides two cryopreservation solutions for long-term static storing and transporting of biological samples.

Key Features

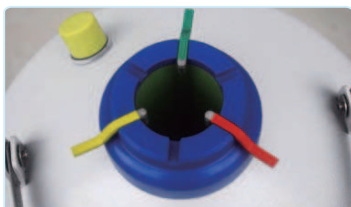
- Strong and lightweight aluminium construction
- Heavy duty lockable enclosure offers excellent security
- Numbered index location points for canisters
- Straw storage
- LN₂ dispense available
- Roller bases available
- High thermal efficiency
- 5 year vacuum warranty
- Ultra-low evaporative losses

Product Advantages

Narrow neck design and excellent thermal conductivity reduces evaporation loss of liquid nitrogen for extended storage time.



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



Long-term cryopreservation models have narrower necks for better thermal conductivity.

28 models, capacities range from 1 to 50 liters.

Technical 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 (3)	6 (3)	6 (3)	6 (3)
	No. of Straws (Single Layer) (0.5ml each holder)	90	90	792	792	792	2040
	No. of Straws (Single Layer) (0.25ml each holder)	204	204	1788	1788	1788	4554
	No. of Straws (Double Layer) (0.5ml each holder)	—	—	—	—	—	—
	No. of Straws (Double Layer) (0.25ml each holder)	—	—	—	—	—	—
Performance	Volume of LN ₂ (L)	2	2	3.15	6	10	10
	Static Evaporation* (L/Day)	0.06	0.06	0.10	0.10	0.10	0.18
	Duration of Normal Operation** (Day)	21	21	20	38	63	35
Dimensions	Opening Diameter(MM)	30	35	50	50	50	80
	Height(MM)	378	378	429	476	536	540
	Outside Diameter(MM)	224	224	224	300	300	300
	Canister Outside Diameter (MM)	19	19	38	38	38	63
	Outside Height(MM)	120	120	120	120	120	120
	Empty Weight(KG)	2.9	2.9	3.5	5	6.3	6.5
	Gross Weight(KG)	4.5	4.5	6	9.9	14.5	14.7

	Model	YDS-10-125	YDS-13	YDS-15	YDS-15-125	YDS-20	YDS-30
Maximum Capacity	No. of Canister	1 (0)	6 (3)	6 (3)	1 (0)	6 (3)	6 (3)
	No. of Straws (Single Layer) (0.5ml each holder)	—	—	792	—	792	792
	No. of Straws (Single Layer) (0.25ml each holder)	—	—	1788	—	1788	1788
	No. of Straws (Double Layer) (0.5ml each holder)	1508	1284	—	1508	1284	1284
	No. of Straws (Double Layer) (0.25ml each holder)	3324	2832	—	3324	2832	2832
Performance	Volume of LN ₂ (L)	10	13	15	15	20	30
	Static Evaporation* (L/Day)	0.30	0.10	0.10	0.30	0.10	0.11
	Duration of Normal Operation** (Day)	21	82	94	31	126	172
Dimensions	Opening Diameter(MM)	125	50	50	125	50	50
	Height(MM)	546	610	575	585	656	655
	Outside Diameter(MM)	300	310	394	394	394	461
	Canister Outside Diameter (MM)	97	38	38	97	38	38
	Outside Height(MM)	276	276	120	276	120/276	120/276
	Empty Weight(KG)	6.9	6.6	8.2	10.2	11.7	12
	Gross Weight(KG)	15.1	17.3	20.5	22.5	28.1	36.6

	Model	YDS-30-80	YDS-30-125	YDS-35	YDS-35-80	YDS-35-125	YDS-47-127
Maximum Capacity	No. of Canister	6 (3)	6 (3)	6 (3)	6 (3)	6 (3)	6 (3)
	No. of Straws (Single Layer) (0.5ml each holder)	2244	5124	792	2244	5124	5124
	No. of Straws (Single Layer) (0.25ml each holder)	5022	11952	1788	5022	11952	11952
	No. of Straws (Double Layer) (0.5ml each holder)	3624	9048	1284	3624	9048	9048
	No. of Straws (Double Layer) (0.25ml each holder)	8460	19944	2832	8460	19944	19944
Performance	Volume of LN ₂ (L)	30	30	35	35	35	47
	Static Evaporation* (L/Day)	0.18	0.28	0.11	0.19	0.29	0.33
	Duration of Normal Operation** (Day)	105	67	200	116	76	90
Dimensions	Opening Diameter(MM)	80	125	50	80	125	127
	Height(MM)	655	659	695	698	700	754
	Outside Diameter(MM)	461	461	461	461	461	461
	Canister Outside Diameter (MM)	63	97	38	63	97	97
	Outside Height(MM)	120/276	120/276	120/276	120/276	120/276	120/276
	Empty Weight(KG)	12.4	14.3	14	14.2	14.5	15.4
	Gross Weight(KG)	37	38.9	42.7	42.9	43.2	54

Model		YDS-20B	YDS-30B	YDS-30B-80	YDS-30B-125	YDS-35B
Max-imum Capacity	No. of Canister	6 (3)	6 (3)	6 (3)	6 (3)	6 (3)
	No. of Straws (Single Layer) (0.5ml each holder)	792	792	2244	5124	792
	No. of Straws (Single Layer) (0.25ml each holder)	1788	1788	5022	11952	1788
	No. of Straws (Double Layer) (0.5ml each holder)	1284	1284	3624	9048	1284
	No. of Straws (Double Layer) (0.25ml each holder)	2832	2832	8460	19944	2832
Performance	Volume of LN ₂ (L)	20	30	30	30	35
	Static Evaporation* (L/Day)	0.18	0.17	0.23	0.34	0.17
	Duration of Normal Operation** (Day)	70	111	82	56	129
Dimensions	Opening Diameter(MM)	50	50	80	125	50
	Height(MM)	656	656	656	659	695
	Outside Diameter(MM)	394	461	461	461	461
	Canister Outside Diameter(MM)	38	38	63	97	38
	Outside Height(MM)	120/276	120/276	120/276	120/276	120/276
	Empty Weight(KG)	11.5	12.5	13	14.6	14.1
	Gross Weight(KG)	27.9	37.1	37.6	39.2	42.8

Model		YDS-35B-80	YDS-35B-125	YDS-50B	YDS-50B-80	YDS-50B-125
Max-imum Capacity	No. of Canister †	6 (3)	6 (3)	6 (3)	6 (3)	6 (3)
	No. of Straws (Single Layer) (0.5ml each holder)	2244	5124	792	2244	5124
	No. of Straws (Single Layer) (0.25ml each holder)	5022	11952	1788	5022	11952
	No. of Straws (Double Layer) (0.5ml each holder)	3624	9048	1284	3624	9048
	No. of Straws (Double Layer) (0.25ml each holder)	8460	19944	2832	8460	19944
Performance	Volume of LN ₂ (L)	35	35	50	50	50
	Static Evaporation* (L/Day)	0.23	0.35	0.20	0.26	0.37
	Duration of Normal Operation** (Day)	96	63	157	121	85
Dimensions	Opening Diameter(MM)	80	125	50	80	125
	Height(MM)	698	700	770	766	753
	Outside Diameter(MM)	461	461	461	461	461
	Canister Outside Diameter (MM)	63	97	38	63	97
	Outside Height(MM)	120/276	120/276	120/276	120/276	120/276
	Empty Weight(KG)	14.3	14.8	19.3	20.1	21
	Gross Weight(KG)	43	43.5	60.3	61.1	62

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

* Static evaporation and static holding time is theoretical value. Actual evaporation and holding time is affected by usage, atmospheric conditions, and manufacturing tolerances.

** Duration of normal operation is for reference only to estimate container performance under normal operating conditions. Actual duration may differ due to different atmospheric conditions, usage history, manufacturing tolerances, and particular circumstances.

Cryo Tube Clamp Parameter

Canister Parameters	120 mm Long, 38 mm diameter (50-diameter storage tank)				276 mm Long, 38 mm diameter (50-diameter storage tank)			
	Cryovial Parameters	No. of holders in a canister	No. of vials in a holder	No. of vials in a storage tank	No. of holders in a canister	No. of vials in a holder	No. of vials in a canister	No. of vials in a storage tank
0.5 ml	3	3	9	54	3	6	18	108
1.5 ml	3	3	9	54	3	6	18	108
2.0 ml	3	3	9	54	3	6	18	108
3.0 ml	3	3	9	54	3	6	18	108
5.0 ml	3	1	3	18	3	3	9	54
Canister Parameters	120 mm Long, 63 mm diameter (80-diameter storage tank)				276 mm Long, 63 mm diameter (80-diameter storage tank)			
	Cryovial Parameters	No. of holders in a canister	No. of vials in a holder	No. of vials in a storage tank	No. of holders in a canister	No. of vials in a holder	No. of vials in a canister	No. of vials in a storage tank
0.5 ml	11	3	33	198	11	6	66	396
1.5 ml	11	3	33	198	11	6	66	396
2.0 ml	11	3	33	198	11	6	66	396
3.0 ml	11	3	33	198	11	6	66	396
5.0 ml	11	1	11	66	11	3	33	198
Canister Parameters	120 mm Long, 97mm diameter (125-diameter storage tank)				276 mm Long, 97 mm diameter (125-diameter storage tank)			
	Cryovial Parameters	No. of holders in a canister	No. of vials in a holder	No. of vials in a storage tank	No. of holders in a canister	No. of vials in a holder	No. of vials in a canister	No. of vials in a storage tank
0.5 ml	27	3	81	486	27	6	162	972
1.5 ml	27	3	81	486	27	6	162	972
2.0 ml	27	3	81	486	27	6	162	972
3.0 ml	27	3	81	486	27	6	162	972
5.0 ml	27	1	27	162	27	3	81	486

Accessories





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