

Haier Biomedical
Intelligent Protection of Life Science

Liquid Nitrogen Storage Systems

High Capacity Series Storage or Transport



Key Features

- High-strength, lightweight and small-size aluminum construction
- Ultra-low evaporation loss
- Numbered index for canister position
- High thermal efficiency
- Heavy duty lockable enclosure offers excellent security
- 5 year vacuum warranty



- Roller bases and LN2 dispense available
- Straw storage

Product Description

1. Premium heat transfer efficiency and narrow neck design extends the storage time, providing long-term storage and reduce the evaporation loss of liquid nitrogen;
2. All liquid nitrogen containers for optimal long-term storage have narrow necks for excellent thermal effects;

Product List

Model	Description	Accessories		
		Standard (included)	Optional	
High Capacity Series Storage or Transport	YDS-2-30	2L, neck opening diameter 30mm	<ul style="list-style-type: none"> • Includes 3 canisters (TT-30D) • Protective jacket 	Locking Cover SG-30
	YDS-3	3L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50D • Locking Cover SG-50
	YDS-6	6L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50D • Locking Cover SG-50
	YDS-10	10L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50D • Locking Cover SG-50
	YDS-10-80	10L, neck opening diameter 80mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-80D • Locking Cover SG-80
	YDS-10-125	10L, neck opening diameter 125mm	Not applicable	<ul style="list-style-type: none"> • Canister TT-125D • Locking Cover SG-125
	YDS-13	13L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S • Locking Cover SG-50
	YDS-15	15L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50D • Locking Cover SG-50
	YDS-20	20L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-30	30L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-30-80	30L, neck opening diameter 80mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-80D • Locking Cover SG-80 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-30-125	30L, neck opening diameter 125mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-125D • Locking Cover SG-125 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35	35L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35-80	35L, neck opening diameter 80mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-80D • Locking Cover SG-80 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35-125	35L, neck opening diameter 125mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-125S, TT-125D • Locking Cover SG-125 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-47-127	47L, neck opening diameter 127mm	<ul style="list-style-type: none"> • Includes 10 round canisters with diameter of 72mm and length of 276mm • Includes a locking cover SG-125 	<ul style="list-style-type: none"> • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-20B	20L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-30B	30L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35B	35L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35B-80	35L, neck opening diameter 80mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-80D • Locking Cover SG-80 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-35B-125	35L, neck opening diameter 125mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-125S, TT-125D • Locking Cover SG-125 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-50B	50L, neck opening diameter 50mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-50S, TT-50D • Locking Cover SG-50 • Trolley YSC-S • Level Monitoring System ZTC-100A
	YDS-50B-125	50L, neck opening diameter 125mm	Protective jacket	<ul style="list-style-type: none"> • Canister TT-125S, TT-125D • Locking Cover SG-125 • Trolley YSC-S • Level Monitoring System ZTC-100A

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 canister	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 canister	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 canister	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

Level Monitoring System









Liquid level monitor tracks LN₂ liquid level and temperature continuously and reliably inside the tank and informs users to refill LN₂. It is suitable for institutes requiring long time cryopreservation.

The monitor offers real-time temperature and LN₂ liquid level display, and audible/visual alarms for high temperature, sensor failure, and low liquid level.








Different configurations available, details on request.



Specifications

Model	YDS-20	YDS-30	YDS-30-80	YDS-30-125	YDS-35	YDS-35-80	YDS-35-125	YDS-47-127	
Product Images									
Maximum storage capacity									
Number of Canisters	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	6(0)	10(10)	
Number of Straws (Single Layer)(0.5ml each holder)	792	792	2244	5124	792	2244	5124	4310	
Number of Straws (Single Layer)(0.25ml each holder)	1788	1788	5022	11952	1788	5022	11952	10320	
Number of Straws (Double Layer)(0.5ml each holder)	1284	1284	3624	9048	1284	3624	9048	8200	
Number of Straws (Double Layer)(0.25ml each holder)	2832	2832	8460	19944	2832	8460	19944	17810	
Performance									
Volume of LN ₂ (L)	20	30	30	30	35	35	35	47	
Static Evaporation*(L/Day)	0.1	0.11	0.18	0.28	0.11	0.19	0.29	0.33	
Duration of Normal Operation*(Day)	126	172	105	67	200	116	76	90	
Dimensions									
Opening Diameter (mm)	50	50	80	125	50	80	125	127	
Height (mm)	672	705	709	704	749	753	748	718	
Outside Diameter (mm)	394	461	461	461	461	461	461	508	
Canister Outside Diameter (mm)	38	38	63	97	38	63	97	97	
Outside Height (mm)	120/276	120/276	120/276	120	120/276	120/276	120/276	276	
Empty Weight (KG)	11.7	12	12.4	14.3	14	14.2	14.5	15.4	
Gross Weight (KG)	28.1	36.6	37	38.9	42.7	42.9	43.2	54	
Notes :	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	standard with no canister, without locking lid; with protective sleeve; Optional transport vehicle; Up to 6 canisters are available	The standard 10 Φ 72, 276 mm long round canister; without protective sleeve; with locking lid; Optional transport vehicle

Specifications
















Model	YDS-20B	YDS-30B	YDS-35B	YDS-35B-80	YDS-35B-125	YDS-50B	YDS-50B-125
Product Images							
Maximum storage capacity							
Number of Canisters	6(B)	6(B)	6(B)	6(B)	6(B)	6(B)	6(B)
Number of Straws (Single Layer)(0.5ml each holder)	792	792	792	2244	5124	792	5124
Number of Straws (Single Layer)(0.25ml each holder)	1788	1788	1788	5022	11952	1788	11952
Number of Straws (Double Layer)(0.5ml each holder)	1284	1284	1284	3624	9048	1284	9048
Number of Straws (Double Layer)(0.25ml each holder)	2832	2832	2832	8460	19944	2832	19944
Performance							
Volume of LN ₂ (L)	20	30	35	35	35	50	50
Static Evaporation * (L/Day)	0.18	0.17	0.17	0.23	0.35	0.2	0.37
Duration of Normal Operation* (Day)	70	111	129	96	63	157	85
Dimensions							
Opening Diameter (mm)	50	50	50	80	125	50	125
Height (mm)	672	705	749	753	748	810	818
Outside Diameter (mm)	394	461	461	461	461	461	461
Canister Outside Diameter (mm)	38	38	38	63	97	38	97
Outside Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276	120/276
Empty Weight (KG)	11.5	12.5	14.1	14.3	14.8	19.3	21
Gross Weight (KG)	27.9	37.1	42.8	43	43.5	60.3	62
Notes :	standard with no canister, Up to 6 canisters are provided; without locking lid; with protective sleeve; Optional transport base	standard with no canister, without locking lid; with protective sleeve	standard with no canister, Up to 6 canisters are provided; without locking lid; with protective sleeve; Optional transport base	standard with no canister, Up to 6 canisters are provided; without locking lid; with protective sleeve; Optional transport base	standard with no canister, without locking lid; with protective sleeve; Special use for transportation of liquid nitrogen	standard with no canister, Up to 6 canisters are provided; without locking lid; with protective sleeve; Optional transport base	standard with no canister, without locking lid; with protective sleeve; Special use for transportation of liquid nitrogen

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.

Accessories and Consumables

Accessories	Model	Product Images	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
Level Monitoring system	Level Monitoring System ZTC-100A		Suitable for both YDS series and YDZ series	Optional	95×155×35	0.50	Using platinum resistor to measure the temperature, and setting single-point level alarm through the temperature: with buzzer alarm function available
Canister	Canister TT-30D		Suitable for 120mm round canister with neck opening diameter of 30	Optional	Φ25×330	0.054	Diameter of 19mm, height of 120mm, single layered canister, Suitable for YDS-2-30
	Canister TT-35D		Suitable for 120mm round canister with neck opening diameter of 35	Optional	Φ25×330	0.054	Diameter of 25mm, height of 120mm, single layered canister, excluding white plastic goblet, Suitable for YDS-2-30
	Canister TT-50D		Suitable for 120mm round canister with neck opening diameter of 50	Optional	Φ38×610	0.08	Diameter of 38mm, height of 120mm, single layered canister, excluding white plastic goblet, Suitable for YDS-6, YDS-10, YDS-15, YDS-20, YDS-30, YDS-35, YDS-50 models
	Canister TT-50S		Suitable for 276mm round canister with neck opening diameter of 50	Optional	Φ38×675	0.081	Diameter of 38mm, height of 276mm, double layered canister, including white plastic goblet, Suitable for YDS-13, YDS-30, YDS-35, YDS-50 models
	Canister TT-80D		Suitable for 120mm round canister with neck opening diameter of 80	Optional	Φ63×675	0.155	Diameter of 63mm, height of 120mm, single layered canister, excluding white plastic goblet, Suitable for YDS-10-80, YDS-30-80, YDS-35-80, YDS-6H-80, YDS-8H-80 models
	Canister TT-125D		Suitable for 120mm round canister with neck opening diameter of 125	Optional	Φ97×710	0.33	Diameter of 97mm, height of 120mm, single layered canister, excluding white plastic goblet, Suitable for YDS-30-125, YDS-35-125, YDS-50B-125
Cryo Tube Clip	Cryo Tube Clip (Type 3)		Universal	Optional	20×20×150	0.01	Suitable for canister with the height of 120MM, contain Cryo Tube Clip and plastic jacket, each tube contain 3, 2ml Cryo Tube
	Cryo Tube Clip (Type 6)		Universal	Optional	20×20×300	0.02	Suitable for canister with the height of 276MM, contain Cryo Tube Clip and plastic jacket, each tube contain 6, 2ml Cryo Tube
Cryogenic Gloves	Special for low temperature, 320mm in length		Universal	Optional	320×150×10	0.08	Overall length 320mm
	Special for low temperature, 450mm in length		Universal	Optional	450×180×10	0.10	Overall length 450mm
	Special for low temperature, 720mm in length		Universal	Optional	720×200×20	0.12	Overall length 720mm
Stainless Steel Trolley	Trolley YSC-S		Suitable for 30-50L series of products (new 47-127 liquid nitrogen containers need to be separately noted); suitable for 30L, 35L and 50L series of products; equipped with 5 universal casters	Optional	80×82×575	11.8	
Liquid Nitrogen Pump	ZYB-5 Hand Held Liquid Nitrogen Pump		Suitable for series of products above 20L with opening diameter of 50	Optional	250×185×1115	18.50	Suitable for series products with neck opening diameter of 50mm and capacity of no less than 20L
	ZYB-8 Foot Step Liquid Nitrogen Pump		Suitable for series of products above 20L with opening diameter of 850	Optional	250×185×1115	24.50	Suitable for series products with neck opening diameter of 50mm and capacity of no less than 20L
Level Measuring Scale	Level Measuring Scale (600mm)		Suitable for aluminum containers below 20L (measuring length: 600mm)	Optional	60	0.12	Suitable for aluminium containers with capacity of no less than 20L (measuring length 600mm)
	Level Measuring Scale (1000mm)		Suitable for aluminum containers below 20L (measuring length: 1000mm)	Optional	100	0.18	Suitable for aluminium containers with capacity of no less than 20L (measuring length 1000mm)
Cork	Cork with neck opening diameter of 30mm		Suitable for corks with opening diameter of 30	Optional	128×128×210	0.20	Including the cap and the cork body: suitable for YDS-2-30
	Cork with neck opening diameter of 35mm		Suitable for corks with opening diameter of 35	Optional	128×128×210	0.24	Including the cap and the cork body: suitable for YDS-2-35
	Cork with neck opening diameter of 50mm		Suitable for corks with opening diameter of 50	Optional	128×128×210	0.28	Suitable for neck opening diameter of 50mm
	Cork with neck opening diameter of 80mm		Suitable for corks with opening diameter of 80	Optional	128×128×200	0.32	Suitable for neck opening diameter of 80mm
	Cork with neck opening diameter of 125mm		Suitable for corks with opening diameter of 125	Optional	170×170×180	0.38	Suitable for neck opening diameter of 125mm
Locking Cover	Locking Cover SG-30		Suitable for locking cover with opening diameter of 30	Optional	130×130×80	0.65	Suitable for YDS-2-30
	Locking Cover SG-35		Suitable for locking cover with opening diameter of 35	Optional	130×130×80	0.65	Suitable for YDS-2-35
	Locking Cover SG-50		Suitable for locking cover with opening diameter of 50	Optional	140×140×80	0.70	Suitable for neck opening diameter of 50mm
	Locking Cover SG-80		Suitable for locking cover with opening diameter of 80	Optional	180×180×100	0.80	Suitable for neck opening diameter of 80mm
	Locking Cover SG-125		Suitable for locking cover with opening diameter of 125	Optional	210×210×120	0.90	Suitable for neck opening diameter of 125mm
Flexible Metal Tubing	GB-DN15/1.5		Drift diameter: 10mm; length: 1.0m; special for liquid nitrogen pump	Optional	1000×20×20	1.20	Diameter of 10mm, length of 1.0m, suitable for liquid nitrogen pump series



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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