

# Small Sized Storage Series (Square Racks)



## Scope of Application:

Widely used within many laboratories, this small-sized storage series features low LN<sub>2</sub> consumption and dual handle design. Stores between 100 and 1100 vials in square racks and cryo boxes.

## Innovative Design

- ◉ 5 Year Vacuum Warranty
- ◉ Durable
- ◉ High Thermal Efficiency
- ◉ Secure
- ◉ Lightweight
- ◉ Super-Insulation
- ◉ 10 Litre to 50 Litre Capacity
- ◉ Ideal for Lab Applications

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### Key Features

- Heavy duty lockable enclosure offers excellent security
- Strong, lightweight aluminium construction
- Dual handles
- Temperature monitoring available
- Roller bases available
- High thermal efficiency
- 5 year vacuum warranty
- Ultra-low LN<sub>2</sub> evaporation loss

### Product Advantages

#### Product Advantages

##### Low LN<sub>2</sub> Consumption and Maximum Storage Efficiency

Haier Biomedical's Small Sized Storage Series (Square Racks) Liquid Nitrogen Storage System features low LN<sub>2</sub> consumption and small storage capacity for laboratory applications. The lightweight containers have a smaller footprint whilst providing maximum efficiency of cryogenic storage capacity.

##### Advanced Vacuum Technology and Super-insulation Technology

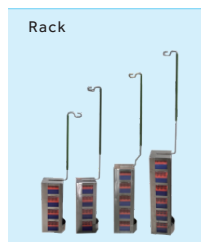
Advanced vacuum and insulation technologies provide ultra-low liquid nitrogen evaporation loss and ensure up to three months cryogenic storage.

##### Five Models Available

Small Sized Storage Series (Square Racks) offers Five models with different capacity from 100, 600, 750, 900 to 1100 standard 2 ml cryovials. All models are supplied with stainless steel racks and cryogenic boxes.








### Accessories



# Small Sized Storage Series (Square Racks)

## Technical Parameters

Model	YDS-10-125	YDS-30-125	YDS-35-125	YDS-47-127	YDS-50B-125
Picture					
Authentication	CE	CE	CE	CE	CE
Maximum Storage Capacity					
No. of Rack	1	6	6	6 (37 per box)	6
1.2&2 ml Cryovials (25 per box)	100	600	750	1110	900
No. of Boxes in (Rack)	4	4	5	5	6
Performance					
Volume of LN <sub>2</sub> (L)	10	30	35	47	50
Static Evaporation* (L/Day)	0.42	0.35	0.36	0.36	0.45
Static Holding Time** (Day)	24	90	97	130	110
Number of days for normal operation (D)	14	71	76	95	85
Dimensions					
Opening Diameter (mm)	125	125	125	127	125
Height (mm)	625	725	765	740	830
Overall Diameter (mm)	300	462	462	508	462
Empty Weight (kg)	6.3	13	14.5	18.2	17.3
Full Weight (kg)	15.1	38.9	43.2	60.9	62.4
Shipping Weight (kg)	9.6	19.3	21.9	30.7	30.3

\*Static Evaporation: The amount of liquid nitrogen lost by natural evaporation within 24 hours after the container is allowed to reach thermal equilibrium under the specified filling rate, which is converted into the evaporation value under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C).

\*\*Static Holding Time: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, and the liquid nitrogen filling rate reaches 100%, the number of days when the liquid nitrogen is completely evaporated on standing.

## Product List

Model	Product	Product Model	Description and Accessories
YDS-10-125	Liquid Nitrogen container	YDS-10-125	Include 1 square rack with 4 layers. 5*5 cryobox, lockable cap and PU bag.
	Liquid Nitrogen container	YDS-10-125	Includes PU bag only; No canister; no lockable cap
	Rack	FTT-25-4H	Used for storing 5*5 cryo boxes(2ml), 4 layers in total. with 5*5 cryo boxes included, suitable for YDS-30-125/YDS-10-125
	Canister	TTH10-125	φ97,120mm single tier canister, No goblet. suitable for YDH-10-125
	SmartCap	T-125	Used for monitoring real time temperature for containers with 125mm neck opening, 6 grooves and 180mm high cork, data can be transmitted to Haier's IoT platform. suitable for YDH-10-125/YDS-10-125
	Cork (125)	GS-125-180	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-30-125	Liquid Nitrogen container	YDS-30-125	Includes 6 racks with 4 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-30-125	Includes PU bag only, roller base is optional
	Rack	FTT-25-4H	Used for storing 5*5 cryo boxes(2ml), 4 layers in total. with 5*5 cryo boxes included, suitable for YDS-30-125/YDS-10-125
	Canister	TT30-125	φ97, 120mm single tier canister, No goblet. suitable for YDS-30-125
	Roller Base	YSC-465-5W	Suitable for tanks with diameter less than φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels.
	SmartCap	LT-125	Used for monitoring real time level and temperature for containers with 80mm neck opening, 6 grooves and 540mm height suitable for YDS-20-125/YDS-30-125
	Cork (125)	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening

## Small Sized Storage Series (Square Racks)

Model	Product	Product Model	Description and Accessories
YDS-35-125	Liquid Nitrogen container	YDS-35-125	Includes 6 canisters (Height 276mm), lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-35-125	Includes 6 racks with 5 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-35-125	Includes PU bag only, roller base is optional
	Rack	FTT-25-5	Used for storing 5*5 cryo boxes (2ml), 5 layers in total. with 5*5 cryo boxes included, suitable for YDS-35-125
	Canister	TT35-125	φ97, 120mm single tier canister, No goblet, suitable for YDS-35-125
	Canister	TTS35-125	φ97, 276mm double-tier canister, 2 goblets included. Suitable for YDS-35-125
	Roller Base	YSC-465-5W	Suitable for tanks with diameter less than φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels.
	Smart Cap	LT-125	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 575mm height. suitable for YDS-25-125/YDS-35-125/YDS-35-125
	Cork (125)	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-47-127	Liquid Nitrogen container	YDS-47-127	Includes 6 round rack with 5 layers (37 holes), lockable cap and PU bag; Roller base is optional
	Liquid Nitrogen container	YDS-47-127-10	Includes 10 canisters( φ72/276mm), lockable cap and PU bag. roller base is optional
	Round Rack (Y98-37)	YTT-37-5	φ98 round rack used for storing 37 holes cryobox (2ml). 5 tiers in total, suitable for YDS-47-127-T37
	Canister	TTS47-127-10	φ72, 276mm double-tier canister, 2 goblets included. Suitable for YDS-47-127-10T
	Roller Base	YSC-525-5W	Suitable for tanks with diameter less than φ525. Can be used for 47L aluminium tank, equipped with 5 universal wheels
	Smart Cap	LT-127	Used for monitoring real time level and temperature for containers with 127mm neck opening, 10 grooves and 570mm height. Suitable for YDS-47-127-10T/MVE-XC47/11-10
	Smart Cap	LT-127	Used for monitoring real time level and temperature for containers with 127mm neck opening, 6 grooves and 570mm height. suitable for YDS-47-127-6Y/YDS-47-127/MVE XC-47/11-6
	Cork (125)	GS-125-210	Suitable for YDS-30-125/YDS-35-125/YDS-47-127 /YDS-35B-125
	Cork (125)	GS-127-210-10 (L)	Suitable for YDS-47-127-10T
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening
YDS-50B-125	Liquid Nitrogen container	YDS-50B-125	Includes 6 racks with 6 layers, 5*5 cryoboxes, lockable cap and PU bag, roller base is optional.
	Liquid Nitrogen container	YDS-50B-125	Includes 6 canisters ( φ97/276mm), lockable cap and PU bag. roller base is optional
	Liquid Nitrogen container	YDS-50B-125	Includes PU bag only, roller base is optional
	Rack	FTT-25-6H	Used for storing 5*5 cryo boxes (2ml), 6 layers in total. with 5*5 cryo boxes included, suitable for YDS-50B-125
	Canister	TT50-125	φ97, 120mm single tier canister, No goblet. suitable for YDS-50B-125
	Canister	TTS50-125	φ97, 276mm double-tier canister, 2 goblets included. Suitable for YDS-50B-125
	Roller Base	YSC-465-5W	Suitable for tanks with diameter less than φ465. Can be used for 30L, 35L and 50L tank, equipped with 5 universal wheels.
	Smart Cap	LT-125	Used for monitoring real time level and temperature for containers with 125mm neck opening, 6 grooves and 670mm height. suitable for YDS-50B-125
	Cork (125)	GS-125-180	Suitable for YDS-10-125/YDH-10-125/YDS-50B-125
	Lockable cap	SG-125	Suitable for container with 125mm and 127mm neck opening

\*Haier Biomedical reserves the right to change products and specifications without prior notice.