## Haier Biomedical Liquid Nitrogen Storage System

### Technical Parameters

| Model | YDS-65-216-FZ | YDS-95-216-FZ | YDS-115-216-FZ | YDS-145-216-FZ | YDS-175-216-FZ |
|---|---|---|---|---|---|
| **Maximum Storage Volume** | | | | | |
| No. of Rack | 6 | 6 | 6 | 6 | 6 |
| 2ml Storage Vials (100/box) | 2400 | 3000 | 3600 | 4800 | 6000 |
| Layers in Rack | 4 | 5 | 6 | 8 | 10 |
| 5ml Storage Vials (81/box) | — | 972 | 1458 | 1944 | 2430 |
| Layers in Rack | — | 2 | 3 | 4 | 5 |
| **Function** | | | | | |
| Liquid Nitrogen Volume (L) | 65 | 95 | 115 | 145 | 175 |
| Static Evapouration Rate* (%/d) | 0.78 | 0.97 | 0.94 | 0.96 | 0.95 |
| Static Holding Time** (Day) | 83 | 98 | 122 | 151 | 184 |
| **Dimensions** | | | | | |
| Neck Opening (mm) | 216 | 216 | 216 | 216 | 216 |
| Overall Height (mm) | 712 | 774 | 846 | 946 | 1060 |
| Overall Diameter (mm) | 681 | 681 | 681 | 681 | 681 |
| Empty Container Weight (kg) | 39.3 | 42.5 | 43.7 | 49.9 | 54.8 |
| Full Container Weight (kg) | 81.5 | 112.3 | 133.5 | 158.9 | 199.5 |
| Shipping Weight (kg) | 63.8 | 67.9 | 71.2 | 82.1 | 91.3 |

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

＊＊Static Holding Time: the amount of days it takes for all of the LN to evapourate 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.

### Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-65-216 | Smart Liquid Nitrogen Container (Smart Series) | YDS-65-216-FZ | Includes 6 racks (4-tier), cryoboxes (9*9), lockable cap, roller base is optional |
| YDS-95-216 | Smart Liquid Nitrogen Container (Smart Series) | YDS-95-216-FZ | Includes 6 racks (5-tier), cryoboxes (9*9), lockable cap, roller base is optional |
| YDS-115-216 | Smart Liquid Nitrogen Container (Smart Series) | YDS-115-216-FZ | Includes 6 racks (6-tier), cryoboxes (9*9), lockable cap, roller base is optional |
| YDS-145-216 | Smart Liquid Nitrogen Container (Smart Series) | YDS-145-216-FZ | Includes 6 racks (8-tier), cryoboxes (9*9), lockable cap, roller base is optional |
| YDS-175-216 | Smart Liquid Nitrogen Container (Smart Series) | YDS-175-216-FZ | Includes 6 racks (10-tier), cryoboxes (9*9), lockable cap, roller base is optional |
| | Roller Base | YSC-M | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |

## Medium Sized Storage Series (Square Racks)

*Medium Sized Storage Series (Square Racks) features low LN$_2$ consumption and relatively small footprint for medium capacity sample storage.*

- 5 Year Vacuum Warranty
- Cryobox Storage
- High Thermal Efficiency
- Liquid and Vapour Storage

- Durable
- Auto-fill Function
- Secure

# Haier Biomedical Liquid Nitrogen Storage System

## Key Features

- Heavy duty lockable enclosure offers excellent security
- Compatible with all major cryobox brands
- Durable aluminium construction
- Temperature monitoring available

- Liquid or vapour phase option available
- High thermal efficiency
- 5 year vacuum warranty
- Ultra-low evapouration Loss

## Product Advantages

### ULT Storage with Extremely Low LN$_2$ Evapouration Loss

Freezer racks are in the ultra-low temperature environment with extremely low LN$_2$ evapouration. Even stored in vapour phase, the temperature will be below -190°C for a long time.

### Advanced Vacuum Technology and Superinsulation Technology

Advanced vacuum and insulation technologies ensure cryopreservation for up to four months.

### Compatible for Blood Bag Storage

Suitable for blood bag applications, the racks can be adapted to provide temporary blood bag storage before transferring bags to larger LN2 storage tanks.

### Level and Temperature Monitor

Liquid level monitor tracks LN$_2$ liquid level and temperature continuously and reliably inside the tank and alerts users to refill tank. It is suitable for institutes requiring long-term cryopreservation.

The monitor offers real-time temperature and LN$_2$ liquid level display, and audible/visual alarms for high temperature, sensor failure, and low liquid level.

ZTC-100A

## Technical Parameters

| Model | YDS-65-216-F | YDS-95-216-F | YDS-115-216-F | YDS-140-216-F | YDS-175-216-F |
|---|---|---|---|---|---|
| **Maximum Storage Capacity** | | | | | |
| No. of Rack | 6 | 6 | 6 | 6 | 6 |
| No. 2.0 ml Cryovials (100 / Box) | 2400 | 3000 | 3600 | 4800 | 6000 |
| No. of Boxes in (2ml each Rack) | 4 | 5 | 6 | 8 | 10 |
| No. 5.0 ml Cryovials (81 / Box) | - | 972 | 1458 | 1944 | 2430 |
| No. of Boxes in (5ml each Rack) | - | 2 | 3 | 4 | 5 |
| **Performance** | | | | | |
| Volume of LN$_2$ (L) | 65 | 95 | 115 | 140 | 175 |
| Static Evapouration Rate* (L/Day) | 0.78 | 0.97 | 0.94 | 0.96 | 0.95 |
| Static Holding Time** (Day) | 83 | 98 | 122 | 151 | 184 |
| **Dimensions** | | | | | |
| Neck Opening Diameter (mm) | 216 | 216 | 216 | 216 | 216 |
| Height (mm) | 712 | 774 | 846 | 946 | 1060 |
| Outer Diameter (mm) | 681 | 681 | 681 | 681 | 681 |
| Empty Weight (kg) | 38.3 | 41.3 | 42.3 | 48.9 | 53.8 |
| Gross Weight (kg) | 80.8 | 112.4 | 132.8 | 157.3 | 198.5 |
| Shipping Weight (kg) | 61.8 | 65.9 | 72.9 | 80.1 | 89.2 |

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

＊＊Static Holding Time: the amount of days it takes for all of the LN to evapourate 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.

## Accessories

| Caster Base | Cryogenic Box | 216 Diameter Lock Cap | 5 ml Customized Rank |
|---|---|---|---|

| 5 ml Customized Cryogenic Box | SmartCap | Square Rack | Smart Box (SW-300) |
|---|---|---|---|

Liquid Nitrogen Storage Solution

# Haier Biomedical Liquid Nitrogen Storage System

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-65-216 | Liquid Nitrogen Container | YDS-65-216-F | Includes 6 racks (4 layers), 9*9 cryoboxes, lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-65-216 | Includes lockable cap, no rack, no Protective jacket |
| | Rack | FTT-81-4 | Used to store 2ml cryo boxes (9*9), 4 layers in total, 9*9 cryo boxes included, suitable for YDS-65-216 (plastic cryo boxes included) |
| | Roller Base | YSC-M(2019) | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |
| | Smart Cap | LT-216-340 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-65-216 |
| | Cork (216) | GS175-216 | Suitable for all aluminium tank with neck opening 216mm |
| | Lockable Cap | SG-216 | Suitable for container with 216mm neck opening |
| YDS-95-26 | Liquid Nitrogen Container | YDS-95-216-F (5.0) | Includes 6 racks for 5ml, 2 layers in total, 12pcs of 5ml 9*9 cryo boxes and lockable cap included, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-95-216-F | Includes 6 racks (5 layers), 9*9 cryoboxes, lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-95-216 | Includes lockable cap, no rack, no protective jacket |
| | Rack | FTT-81-5 | Used to store 2ml cryo boxes (9*9), 5 layers in total, 9*9 cryo boxes included, suitable for YDS-95-216\YDS-25H-216 (plastic cryo boxes included) |
| | Rack | FTT-81-2 (5.0) | Used to store 5ml cryo boxes (9*9), 2 layers in total, 9*9 cryo boxes included, suitable for YDS-65-216\95-216 (plastic cryo boxes included) |
| | Roller Base | YSC-M(2019) | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |
| | Smart Cap | LT-216-370 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-95-216 |
| | Cork (216) | GS175-216 | Suitable for all aluminium tank with neck opening 216mm |
| | Lockable Cap | SG-216 | Suitable for container with 216mm neck opening |
| YDS-115-216 | Liquid Nitrogen Container | YDS-115-216-F (5.0) | Includes 6 racks for 5ml, 3 layers in total, 18pcs of 5ml 9*9 cryo boxes and lockable cap included, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-115-216-F | Includes 6 racks (6 layers), 9*9 cryoboxes, lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-115-216 | Includes lockable cap, no rack, no protective jacket |
| | Rack | FTT-81-6 | Used to store 2ml cryo boxes (9*9), 6 layers in total, 9*9 cryo boxes included, suitable for YDS-115-216 (plastic cryo boxes included) |
| | Rack | FTT-81-3 (5.0) | Used to store 5ml cryo boxes (9*9), 3 layers in total, 9*9 cryo boxes included, suitable for YDS-115-216 (plastic cryo boxes included) |
| | Roller Base | YSC-M(2019) | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |
| | Smart Cap | LT-216-450 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-115-216 |
| | Cork (216) | GS175-216 | Suitable for all aluminium tank with neck opening 216mm |
| | Lockable Cap | SG-216 | Suitable for container with 216mm neck opening |
| YDS-140-216 | Liquid Nitrogen Container | YDS-140-216-F (5.0) | Includes 6 racks for 5ml, 4 layers in total, 24pcs of 5ml 9*9 cryo boxes and lockable cap included, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-140-216-F | Includes 6 racks (8 layers), 9*9 cryoboxes, lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-140-216 | Includes lockable cap, no rack, no protective jacket |
| | Rack | FTT-81-8 | Used to store 2ml cryo boxes (9*9), 8 layers in total, 9*9 cryo boxes included, suitable for YDS-145-216 (plastic cryo boxes included) |
| | Rack | FTT-81-4 (5.0) | Used to store 5ml cryo boxes (9*9), 4 layers in total, 9*9 cryo boxes included, suitable for YDS-145-216 (plastic cryo boxes included) |
| | Roller Base | YSC-M(2019) | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |
| | Smart Cap | LT-216-570 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-145-216 |
| | Cork (216) | GS175-216 | Suitable for all aluminium tank with neck opening 216mm |
| | Lockable Cap | SG-216 | Suitable for container with 216mm neck opening |

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-175-216 | Liquid Nitrogen Container | YDS-175-216-F (5.0) | Includes 6 racks for 5ml, 5 layers in total, 30pcs of 5ml 9*9 cryo boxes and lockable cap included, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-175-216-F | Includes 6 racks (10 layers), 9*9 cryoboxes, lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-175-216 | Includes lockable cap, no rack, no protective jacket |
| | Rack | FTT-81-10 | Used to store 2ml cryo boxes (9*9), 10 layers in total, 9*9 cryo boxes included, suitable for YDS-175-216 (plastic cryo boxes included) |
| | Rack | FTT-81-5 (5.0) | Used to store 5ml cryo boxes (9*9), 5 layers in total, 9*9 cryo boxes included, suitable for YDS-175-216 (plastic cryo boxes included) |
| | Roller Base | YSC-M(2019) | Suitable for all 65L-175L aluminium tank, equipped with 5 universal wheels |
| | Smart Cap | LT-216-670 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-175-216 / competitors' products |
| | Cork (216) | GS175-216 | Suitable for all aluminium tank with neck opening 216mm |
| | Lockable Cap | SG-216 | Suitable for container with 216mm neck opening |
| Other Racks | Blood Bag Rack | DCJ-250-1FT6 | Used to store 250ml blood bag, 7 bags per layer, 1 layer in total, blood bag cryo boxes included, suitable for YDS-95-216 (6 racks ) |
| | Blood Bag Rack | DCJ-250-1T30 | Used to store 250ml blood bag, 1 bag per layer, 1 layer in total, blood bag cryo boxes included, suitable for YDS-95-216 (30 racks) |
| | Blood Bag Rack | DCJ-250-2FT6 | Used to store 250ml blood bag, 7 bags per layer, 2 layers in total, blood bag cryo boxes included, suitable for YDS-175-216 (6 racks ) |
| | Blood Bag Rack | DCJ-250-2T30 | Used to store 250ml blood bag, 7 bags per layer, 2 layers in total, blood bag cryo boxes included, suitable for YDS-175-216 (6 racks) |
| | Blood Bag Rack | DCJ-50-1FT6 | Used to store 50ml blood bag, 14 bags per layer, 1 layer in total, blood bag cryo boxes included, suitable for YDS-95-216 (6 racks ) |
| | Blood Bag Rack | DCJ-50-2T30 | Used to store 50ml blood bag, 1 bag per layer, 2 layers in total, blood bag cryo boxes included, suitable for YDS-95-216 (30 racks) |
| | Blood Bag Rack | DCJ-50-3T30 | Used to store 50ml blood bag, 1 bag per layer, 3 layers in total, blood bag cryo boxes included, suitable for YDS-115-216 (30 racks) |
| | Blood Bag Rack | DCJ-50-2FT6 | Used to store 50ml blood bag, 14 bags per layer, 2 layers in total, blood bag cryo boxes included, suitable for YDS-115-216 (6 racks) |
| | Blood Bag Rack | DCJ-50-4T30 | Used to store 50ml blood bag, 1 bag per layer, 4 layers in total, blood bag cryo boxes included, suitable for YDS-145-216 (30 racks) |
| | Blood Bag Rack | DCJ-50-3FT6 | Used to store 50ml blood bag, 14 bags per layer, 3 layers in total, blood bag cryo boxes included, suitable for YDS-175-216 (6 racks ) |
| | Blood Bag Rack | DCJ-50-5T30 | Used to store 50ml blood bag, one bag per layer, 5 layers in total, blood bag cryo boxes included, suitable for YDS-175-216 (30 racks) |
| | Rack (vertical type) | FDCJ-81-6(115) | Used to store 2ml cryo boxes (9*9), 6 layers in total, suitable for YDS-115-216 (plastic cryoboxes included) |
| | Rack (vertical type) | FDCJ-81-8(145) | Used to store 2ml cryo boxes (9*9), 8 layers in total, suitable for YDS-145-216 (plastic cryoboxes included) |
| | Rack (vertical type) | FDCJ-81-10(175) | Used to store 2ml cryo boxes (9*9), 10 layers in total, suitable for YDS-175-216 (plastic cryoboxes included) |

Liquid Nitrogen Storage Solution
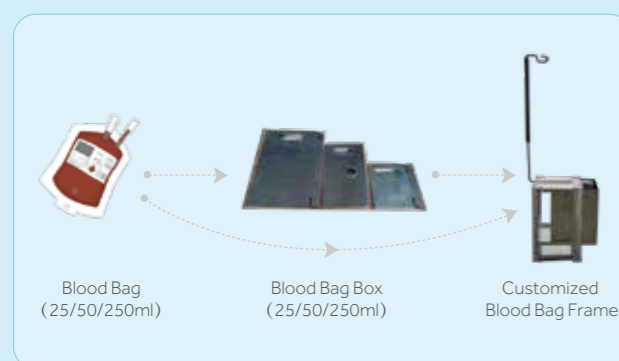
## Haier Biomedical Liquid Nitrogen Storage System

### Biological Sample Library-YDS Series

#### Storage Example of 2ml Internally Threaded Vial



| Vial (1.2/2ml) | Plastic Cryobox (25, 81, 100) | Vertical Freezing Rack | Vial (1.2/2ml) | Vial Cane (3, 6) | Canister |

#### Storage Example of Tall 5ml cryovials



| Vial (5ml) | Cryobox (25, 81) | Vertical Freezing Rack | Vial (5ml) | Vial Cane (6) | Canister |

#### Blood Bag Storage Example

#### Straw Storage Example



| Blood Bag (25/50/250ml) | Blood Bag Box (25/50/250ml) | Customized Blood Bag Frame | Straw (0.25/0.5ml) | Plastic Protective Sleeve | Canister |
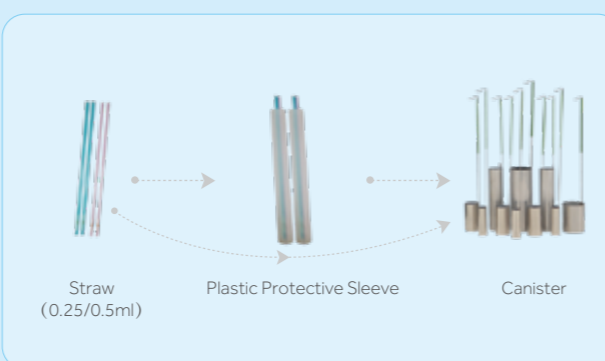
## Small Sized Storage Series (Square Racks)

*Widely used within many laboratories, this small-sized storage series features low LN₂ consumption and dual handle design. Stores between 600 and 1100 vials in square racks and cryo boxes.*

- 5 Year Vacuum Warranty
- High Thermal Efficiency
- Lightweight
- 30 Litre to 50 Litre Capacity

- Durable
- Secure
- Super-Insulation
- Ideal for Lab Applications

## 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 $LN_2$ evapouration loss

## Product Advantages

### Low $LN_2$ Consumption and Maximum Storage Efficiency

Haier Small Sized Storage Series (Square Racks) Liquid Nitrogen Storage System features low $LN_2$ consumption and small storage capacity for laboratory applications. The lightweight tanks 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 evapouration loss and ensure up to three months cryogenic storage.

### Three Models Available

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

## Accessories

| Caster Base | Square Rack | Level Monitor | 125 Diameter Lock Cap | Smartcap | Smart Box (SW-300) |
|---|---|---|---|---|---|

## Technical Parameters

| Model | YDS-10-125 | YDS-30-125 | YDS-35-125 | YDS-47-127 | YDS-50B-125 |
|---|---|---|---|---|---|
| **Maximum Storage Capacity** | | | | | |
| No. of Rack | 1 | 6 | 6 | 6 | 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 $LN_2$ (L) | 10 | 31.5 | 35.5 | 47 | 50 |
| Static Evapouration* (L/Day) | 0.42 | 0.35 | 0.36 | 0.36 | 0.45 |
| Static Holding Time** (Day) | 24 | 90 | 97 | 130 | 110 |
| **Dimensions** | | | | | |
| Opening Diameter (mm) | 125 | 125 | 125 | 127 | 125 |
| Height (mm) | 625 | 704 | 748 | 718 | 818 |
| Outside Diameter (mm) | 300 | 462 | 462 | 508 | 462 |
| Empty Weight (kg) | 6.3 | 13 | 14.5 | 18.2 | 17.3 |
| Gross 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 evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions, and manufacturing tolerances.
＊＊Static Holding Time: the amount of days it takes for all of the LN to evapourate 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.

## Product List
* All models with F-suffix are supplied with stainless steel racks and cryo boxes.

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-10-125 | Liquid Nitrogen Container | YDS-10-125 | No canister; no protective jacket; no lockable cap; equipped with braces for carrying |
| | Liquid Nitrogen Container | YDS-10-125-F | Include 1 square rack with 4 layers and 5*5 cryobox; lockable cap; no protective jacket |
| | Rack | FTT-25-4 | Used to store 2ml cryo boxes (5*5), 4 layers in total, 5*5 cryo boxes included, suitable for YDS-30-125 / YDS-10-125 (plastic cryo boxes included) |
| | Canister (TT97) | TT10H-125 | Φ97 single tier canister, no goblet, suitable for YDS-10-125,YDH-10-125 |
| | Cork (125) | GS10-125 | Suitable for YDS-10-125, YDS-10H-125, YDS-50B-125 |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |
| YDS-30-125 | Liquid Nitrogen Container | YDS-30-125-F | Includes 6 racks with 4 layers, 5*5 cryoboxes, lockable cap and protective jacket, roller base is optional. |
| | Liquid Nitrogen Container | YDS-30-125 | Includes protective jacket only, roller base is optional |
| | Rack | FTT-25-4 | Used to store 2ml cryo boxes (5*5), 4 layers in total, 5*5 cryo boxes included, suitable for YDS-30-125 / YDS-10-125 (plastic cryo boxes included) |
| | Canister (TT97) | TT30-125 | Φ97 single tier canister, no goblet, suitable for YDS-30-125 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-125-370 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-20-125 / YDS-30-125 |
| | Cork (125) | GS20-125 | Suitable for YDS-30-125, YDS-35-125, YDS-47-127, YDS-35B-125 |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-35-125 | Liquid Nitrogen Container | YDS-35-125-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-35-125-F | Includes 6 racks with 5 layers, 5*5 cryoboxes, lockable cap and protective jacket, roller base is optional. |
| | Liquid Nitrogen Container | YDS-35-125 | Includes protective jacket only, roller base is optional |
| | Rack | FTT-25-5 | Used to store 2ml cryo boxes (5*5), 5 layers in total, 5*5 cryo boxes included, suitable for YDS-35-125, YDS-47-127 (plastic cryo boxes included) |
| | Canister (TT97) | TT35-125 | Φ97 single tier canister, no goblet, suitable for YDS-35-125 |
| | Canister (TTS97) | TTS35-125 | Φ97 double-tier canister, 2 goblets included, suitable for YDS-35-125 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-125-400 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-25-125 / YDS-35-125 / competitors' products |
| | Cork (125) | GS20-125 | Suitable for YDS-30-125, YDS-35-125, YDS-47-127, YDS-35B-125 |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |
| YDS-47-127 | Liquid Nitrogen Container | YDS-47-127-6YS | Includes 6 round rack with 5 layers (37 holes) and lockable cap, no protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-47-127 | Includes 10 canisters (Φ72 / 276mm) and lockable cap, no protective jacket, roller base is optional |
| | Round Rack (Y98-37) | TT47-127-5 | Φ98 round rack used to store 37 vials (2ml), 5 tiers in total, suitable for YDS-47-127-6Y |
| | Canister (TTS72) | TTS47-127-10T | Φ72, height 276mm double-tier canister, 2 goblets included, suitable for YDS-47-127-10T |
| | Roller Base | YSC-47L | Suitable for all 47L Alunimium tank, equipped with 5 universal wheels |
| | SmartCap | LT-127-370-10 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-47-127-10T / competitors' products |
| | SmartCap | LT-127-400 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-47-127-6Y / YDS-47-127 / competitors' products |
| | Cork (125) | GS20-125 | Suitable for YDS-30-125, YDS-35-125, YDS-47-127, YDS-35B-125 |
| | Cork (125) | GS47-127-10T | Suitable for YDS-47-127-10T |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |
| YDS-50B-125 | Liquid Nitrogen Container | YDS-50B-125-F | Includes 6 racks with 6 layers, 5*5 cryoboxes, lockable cap and protective jacket, roller base is optional. |
| | Liquid Nitrogen Container | YDS-50B-125-S | Includes 6 canisters (Φ97 / 276mm), lockable cap and protective jacket. roller base is optional |
| | Liquid Nitrogen Container | YDS-50B-125 | Includes protective jacket only, roller base is optional |
| | Rack | FTT-25-6 | Used to store 2ml cryo boxes (5*5), 6 layers in total, 5*5 cryo boxes included, suitable for YDS-50B-125 (plastic cryo boxes included) |
| | Canister (TT97) | TT50-125 | Φ97 single tier canister, no goblet, suitable for YDS-50B-125 |
| | Canister (TTS97) | TTS50-125 | Φ97 double-tier canister, 2 goblets included, suitable for YDS-50B-125 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-125-500 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-50-125 |
| | Cork (125) | GS10-125 | Suitable for YDS-10-125, YDS-10H-125, YDS-50B-125 |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |

## Product Description

SmartCap is a low energy consumption IoT-based module that can monitor liquid nitrogen level and temperature in a liquid nitrogen tank. It is suitable for aluminium alloy liquid nitrogen tanks with opening port size of 50 mm, 80 mm, 125 mm, 216 mm. The built-in high efficiency lithium battery can operate the device for more than two years.
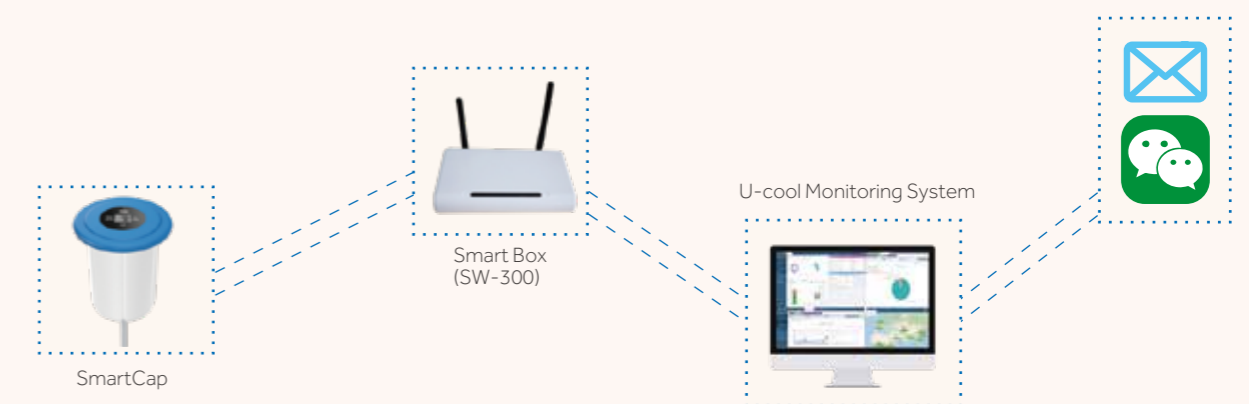
SmartCap

## Product Characteristics

Independent, high accuracy measuring system for liquid level and temperature

Real time display of fluid level and temperature, alarm setting via phone message, email, and wechat

Wireless transmission of fluid level and temperature data to a data interrupter

Fluid level and temperature data uploaded remotely to cloud terminals for recording, printing, and storage

Built-in high efficiency lithium battery for longevity

SmartCap

Smart Box (SW-300)

U-cool Monitoring System

The SmartCap collects liquid level data and temperature data and transmits the information to cloud data store wirelessly, via 2.4G at a fixed interval every 10 minutes. Users can login in Haier's U-cool monitoring platform to check the real-time data and set to transmit the data to email and wechat.

Liquid Nitrogen Storage Solution

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| Smart Cap | SmartCap | LT-50-220 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-3 / YDS-6 |
| | SmartCap | LT-50-280 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-10 / YDS-15 |
| | SmartCap | LT-50-370 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-13 / YDS-20 / YDS-30 |
| | SmartCap | LT-50-400 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-35 |
| | SmartCap | LT-50-450 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-25 any make of tank with 50mm opening. |
| | SmartCap | LT-50-500 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-50 |
| | SmartCap | LT-80-220 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-6-80 |
| | SmartCap | LT-80-280 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-10-80/YDS-15-80 |
| | SmartCap | LT-80-370 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-20-80/YDS-30-80 |
| | SmartCap | LT-80-400 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-35-80 |
| | SmartCap | LT-80-450 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-25-80 |
| | SmartCap | LT-80-500 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-50-80 |
| | SmartCap | LT-125-280 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-10-125/YDS-15-125 |
| | SmartCap | LT-125-340 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for any make of tank with 125mm opening. |
| | SmartCap | LT-125-370 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-20-125/YDS-30-125 |
| | SmartCap | LT-125-400 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-25-125/YDS-35-125/competitors' products |
| | SmartCap | LT-125-500 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-50-125 |
| | SmartCap | LT-127-370-10 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-47-127-10/any make of tank with 125mm opening. |
| | SmartCap | LT-127-400 | Used to monitor level and temperature for containers with 125mm neck opening, data can be transmitted to cloud platform, suitable for YDS-47-127-6Y/YDS-47-127/any make of tank with 125mm opening. |
| | SmartCap | LT-200-340 | Used to monitor level and temperature for containers with 200mm neck opening, data can be transmitted to cloud platform, suitable for any make of tank with 200mm opening |
| | SmartCap | LT-200-370 | Used to monitor level and temperature for containers with 200mm neck opening, data can be transmitted to cloud platform, suitable for any make of tank with 200mm opening |
| | SmartCap | LT-200-450 | Used to monitor level and temperature for containers with 200mm neck opening, data can be transmitted to cloud platform, suitable for any make of tank with 200mm opening |
| | SmartCap | LT-216-340 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-65-216 |
| | SmartCap | LT-216-340-4 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for any make of tank with 200mm opening |
| | SmartCap | LT-216-370 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-95-216 |
| | SmartCap | LT-216-450 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-115-216 |
| | SmartCap | LT-216-570 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-145-216 |
| | SmartCap | LT-216-670 | Used to monitor level and temperature for containers with 216mm neck opening, data can be transmitted to cloud platform, suitable for YDS-175-216/any make of tank with 216mm opening. |
| Accessories | Smart Box | SW-300 | Date transferred with WIFI network connected, required for International users (outside China) |

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

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

- Numbered Index Canister Locations
- High Capacity
- High Thermal Efficiency
- 5 Year Vacuum Warranty
- Extended Hold Time

- $LN_2$ Dispenser
- Round Canisters for Straw Storage
- Lockable
- Roller Bases Available

Liquid Nitrogen Storage Solution

# Haier Biomedical Liquid Nitrogen Storage System

## Key Features

• Strong and lightweight aluminium construction
• Heavy duty lockable enclosure offers excellent security
• Numbered index location points for canisters
• Straw storage
• LN$_2$ dispense pump available

• Roller bases available
• High thermal efficiency
• 5 year vacuum warranty
• Ultra-low evapouration loss

## Product Advantages

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

Large-capacity models have wider necks for easy access to biological samples.
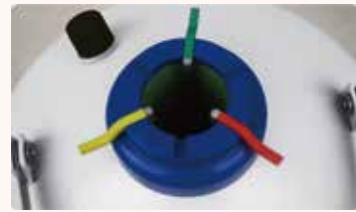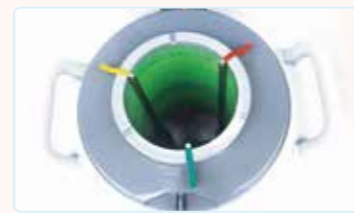
Long-term cryopreservation models have narrower necks with less heat intrusion.

## Technical Parameters

| | Model | YDS-2-30 | YDS-3 | YDS-6 | YDS-10 | YDS-10-80 |
|---|---|---|---|---|---|---|
| Maximum Capacity | No. of Canister | 3（3） | 6（0） | 6（0） | 6（0） | 6（0） |
| | No. of Straws (Single Layer) (0.5ml each canister) | 90 | 792 | 792 | 792 | 2244 |
| | No. of Straws (Single Layer) (0.25ml each canister) | 204 | 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 | 3 | 6 | 10 | 10 |
| | Static Evapouration* (L/Day) | 0.07 | 0.12 | 0.12 | 0.12 | 0.21 |
| | Static Holding Time** (Day) | 28 | 26 | 52 | 86 | 48 |
| Dimensions | Opening Diameter (mm) | 30 | 50 | 50 | 50 | 80 |
| | Height (mm) | 399 | 435 | 482 | 552 | 557 |
| | Outside Diameter (mm) | 223 | 223 | 300 | 300 | 300 |
| | Canister Outside Diameter (mm) | 19 | 38 | 38 | 38 | 63 |
| | Outside Height (mm) | 120 | 120 | 120 | 120 | 120 |
| | Empty Weight (kg) | 2.8 | 3.1 | 4.8 | 6.1 | 6.2 |
| | Gross Weight (kg) | 4.5 | 6 | 9.9 | 14.5 | 14.7 |
| | Shipping Weight (kg) | 5.1 | 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 Evapouration* (L/Day) | 0.43 | 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 | 623 | 591 | 672 | 705 |
| | 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 |
| | Gross 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 | 6714 |
| | No. of Straws (Single Layer) (0.25ml each canister) | 5022 | 11952 | 1788 | 5022 | 11640 | 14070 |
| | No. of Straws (Double Layer) (0.5ml each canister) | 3624 | — | 1284 | 3624 | 9048 | 10704 |
| | No. of Straws (Double Layer) (0.25ml each canister) | 8460 | — | 2832 | 8460 | 20760 | 23604 |
| Performance | Volume of LN$_2$ (L) | 30 | 30 | 35 | 35 | 35 | 47 |
| | Static Evapouration* (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) | 709 | 704 | 749 | 753 | 748 | 718 |
| | 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 |
| | Gross Weight (kg) | 37 | 38.9 | 42.7 | 42.9 | 43.2 | 54 |
| | Shipping Weight (kg) | 18.3 | 19.3 | 20 | 20.7 | 22 | 28 |

# Haier Biomedical Liquid Nitrogen Storage System

| 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 LN₂ (L) | 20 | 30 | 35 |
| | Static Evapouration* (L/Day) | 0.2 | 0.2 | 0.2 |
| | Static Holding Time** (Day) | 101 | 159 | 179 |
| Dimensions | Opening Diameter (mm) | 50 | 50 | 50 |
| | Height (mm) | 672 | 705 | 749 |
| | Outside Diameter (mm) | 394 | 462 | 462 |
| | Canister Outside Diameter (mm) | 38 | 38 | 38 |
| | Outside Height (mm) | 120/276 | 120/276 | 120/276 |
| | Empty Weight (mm) | 9.5 | 12.9 | 14.2 |
| | Gross Weight (mm) | 27.9 | 37.1 | 42.8 |
| | Shipping Weight (mm) | 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 LN₂ (L) | 35 | 35 | 50 | 50 |
| | Static Evapouration* (L/Day) | 0.3 | 0.41 | 0.24 | 0.45 |
| | Duration of Normal Operation** (Day) | 119 | 86 | 213 | 110 |
| Dimensions | Opening Diameter (mm) | 80 | 125 | 50 | 125 |
| | Height (mm) | 753 | 748 | 810 | 817 |
| | 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 |
| | Gross 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 evapouration and static holding time are theoretical values. Actual evapouration and holding time are affected by usage, atmospheric conditions, and manufacturing tolerances.

＊＊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.

## Vials Cane Specification

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

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

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

| Canister | Height 276mm, Diameter 63mm （80mm neck) | | |
|---|---|---|---|
| Vials | Canes/Canister | Vials/Cane | Vials/Canister |
| 0.5ml | 16 | 6 | 96 |
| 1.5ml | 16 | 6 | 96 |
| 2ml | 16 | 6 | 96 |
| 3ml | 16 | 6 | 96 |
| 5ml | 16 | 3 | 48 |

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

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

| Canister | Height 120mm, Diameter 97mm （125mm neck) | | |
|---|---|---|---|
| Vials | Canes/Canister | Vials/Cane | Vials/Canister |
| 0.5ml | —— | —— | —— |
| 1.5ml | 40 | 3 | 120 |
| 2ml | 40 | 3 | 120 |
| 3ml | 40 | 3 | 120 |
| 5ml | 40 | 1 | 40 |

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

| Canister | Height 120mm, Diameter 104mm （127mm neck) | | |
|---|---|---|---|
| Vials | Canes/Canister | Vials/Cane | Vials/Canister |
| 0.5ml | —— | —— | —— |
| 1.5ml | 46 | 3 | 138 |
| 2ml | 46 | 3 | 138 |
| 3ml | 46 | 3 | 138 |
| 5ml | 46 | 1 | 46 |

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

## Accessories


Vial


Vial cane


Canister

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-2-30 | Liquid Nitrogen Container | YDS-2-30 | Includes 3 canisters, lockable cap and protective jacket |
| | Canister (TT19) | TT2-30 | Φ19 single tier canister, without goblets, suitable for YDS-2-30 |
| | Cork (30) | GS2-30 | Suitable for YDS-2-30 |
| | Lockable Cap | SG-30 | Suitable for container with 30mm neck opening, suitable for YDS-2-30 |
| YDS-2-35 | Liquid Nitrogen Container | YDS-2-35 | Includes 3 canisters, lockable cap and braces for carrying, no protective jacket |
| | Canister (TT25) | TT2-35 | Φ25 single tier canister, without goblets, suitable for YDS-2-35 |
| | Cork (30) | GS2-35 | Suitable for YDS-2-35 |
| | Lockable Cap | SG-35 | Suitable for container with 35mm neck opening, suitable for YDS-2-35 |
| YDS-3 | Liquid Nitrogen Container | YDS-3YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-3（2019） | Includes protective jacket only |
| | Canister (TT38) | TT3-50 | Φ38 single tier canister, without goblets, suitable for YDS-3 |
| | Cork (50) | GS10-50 | Suitable for YDS-3 / YDS-3H / YDS-6 / YDS-10 / YDS-13 / YDS-25 / YDS-50B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-6 | Liquid Nitrogen Container | YDS-6YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-6 | Includes protective jacket only |
| | Canister (TT38) | TT6-50 | Φ38 single tier canister, without goblets, suitable for YDS-6 |
| | Cork (50) | GS10-50 | Suitable for YDS-3 / YDS-3H / YDS-6 / YDS-10 / YDS-13 / YDS-25 / YDS-50B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-10 | Liquid Nitrogen Container | YDS-10YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-10 | Includes protective jacket only |
| | Canister (TT38) | TT10-50 | Φ38 single tier canister, without goblets, suitable for YDS-10 |
| | Cork (50) | GS10-50 | Suitable for YDS-3 / YDS-3H / YDS-6 / YDS-10 / YDS-13 / YDS-25 / YDS-50B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-10-80 | Liquid Nitrogen Container | YDS-10-80-6YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-10-80 | Includes protective jacket only |
| | Canister (TT63) | TT10-80 | Φ63 single tier canister, without goblets, suitable for YDS-10-80 |
| | Cork (80) | GS10-80 | Suitable for YDS-6H-80 / YDS-8H-80 / YDS-10-80 |
| | Lockable Cap | SG-80 | Suitable for container with 80mm neck opening |
| YDS-13 | Liquid Nitrogen Container | YDS-13YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-13 | Includes protective jacket only |
| | Canister (TTS38) | TTS13-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-13 |
| | Cork (50) | GS10-50 | Suitable for YDS-3 / YDS-3H / YDS-6 / YDS-10 / YDS-13 / YDS-25 / YDS-50B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-15 | Liquid Nitrogen Container | YDS-15YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-15 | Includes protective jacket only |
| | Canister (TT38) | TT15-50 | Φ38 single tier canister, without goblets, suitable for YDS-15 |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-20 | Liquid Nitrogen Container | YDS-20-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-20YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket |
| | Liquid Nitrogen Container | YDS-20 | Includes protective jacket only |
| | Canister (TT38) | TT30-50 | Φ38 single tier canister, without goblets, suitable for YDS-20 / YDS-30 |
| | Canister (TTS38) | TTS30-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-20 / YDS-30 |
| | Cork (50) | GS20-50 | Suitable for YDS-1 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-30 | Liquid Nitrogen Container | YDS-30-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-30YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-30 | Includes protective jacket only, roller base is optional |
| | Canister (TT38) | TT30-50 | Φ38 single tier canister, without goblets, suitable for YDS-20 / YDS-30 |
| | Canister (TTS38) | TTS30-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-20/YDS-30 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-50-370 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-13/YDS-20/YDS-30 |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-30-80 | Liquid Nitrogen Container | YDS-30-80-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-30-80YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-30-80 | Includes protective jacket only, roller base is optional |
| | Canister (TT63) | TT30-80 | Φ63 single tier canister, without goblets, suitable for YDS-30-80 |
| | Canister (TTS63) | TTS30-80 | Φ63 double-tier canister, 2 goblets included. Suitable for YDS-30-80 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-80-370 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-20-80/YDS-30-80 |
| | Cork (80) | GS20-80 | Suitable for YDS-30-80 / YDS-35-80 / YDS-35B-80 |
| | Lockable Cap | SG-80 | Suitable for container with 80mm neck opening |

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-35 | Liquid Nitrogen Container | YDS-35-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-35YS | Includes 6 canisters (height 120mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-35 | Includes protective jacket only, roller base is optional |
| | Canister (TT38) | TT35-50 | Φ38 single tier canister, without goblets, suitable for YDS-35 |
| | Canister (TTS38) | TTS35-50 | Φ38 double tier canister, 2 goblets included, suitable for YDS-35 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-50-400 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-35 |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-35-80 | Liquid Nitrogen Container | YDS-35-80-6YS | Includes 6 canisters (height 276mm), lockable cap and protective jacket, roller base is optional |
| | Liquid Nitrogen Container | YDS-35-80 | Includes protective jacket only, roller base is optional |
| | Canister (TT63) | TT35-80 | Φ63 single tier canister, without goblets, suitable for YDS-35-80 |
| | Canister (TTS63) | TTS35-80 | Φ63 double-tier canister, 2 goblets included, suitable for YDS-35-80 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L/35L/50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-80-400 | Used to monitor level and temperature for containers with 80mm neck opening, data can be transmitted to cloud platform, suitable for YDS-35-80 |
| | Cork (80) | GS20-80 | Suitable for YDS-30-80 / YDS-35-80 / YDS-35B-80 |
| | Lockable Cap | SG-80 | Suitable for container with 80mm neck opening |
| YDS-20B | Liquid Nitrogen Container | YDS-20B | Includes protective jacket only. |
| | Canister (TT38) | TT30-50 | Φ38 single tier canister, without goblets, suitable for YDS-20 / YDS-30 |
| | Canister (TTS38) | TTS30-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-20/YDS-30 |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-30B | Liquid Nitrogen Container | YDS-30B | Includes protective jacket only, roller base is optional |
| | Canister (TT38) | TT30-50 | Φ38 single tier canister, without goblets, suitable for YDS-20 / YDS-30 |
| | Canister (TTS38) | TTS30-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-20/YDS-30 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| YDS-35B | Liquid Nitrogen Container | YDS-35B | Includes protective jacket only, roller base is optional |
| | Canister (TT38) | TT35-50 | Φ38 single tier canister, without goblets, suitable for YDS-35 |
| | Canister (TTS38) | TTS35-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-35 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | Cork (50) | GS20-50 | Suitable for YDS-15 / YDS-20 / YDS-30 / YDS-35 / YDS-20B / YDS-30B / YDS-35B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |

## Product List

| Model | Product | Model | Description and Accessories |
|---|---|---|---|
| YDS-35B-80 | Liquid Nitrogen Container | YDS-35B-80 | Includes protective jacket only, roller base is optional |
| | Canister (TT63) | TT35-80 | Φ63 single tier canister, without goblets, suitable for YDS-35-80 |
| | Canister (TTS63) | TTS35-80 | Φ63 double-tier canister, 2 goblets included, suitable for YDS-35-80 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | Cork (80) | GS20-80 | Suitable for YDS-30-80 / YDS-35-80 / YDS-35B-80 |
| | Lockable Cap | SG-80 | Suitable for container with 80mm neck opening |
| YDS-35B-125 | Liquid Nitrogen Container | YDS-35B-125 | Includes protective jacket only. |
| | Canister (TT97) | TT35-125 | Φ97 single tier canister, without goblets, suitable for YDS-35-125 |
| | Canister (TTS97) | TTS35-125 | Φ97 double-tier canister, 2 goblets included, suitable for YDS-35-125 |
| | Rack | FTT-25-5 | Used to store 2ml cryo boxes (5*5), 5 layers in total, 5*5 cryo boxes included, suitable for YDS-35-125 / YDS-47-127 (plastic cryo boxes included) |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | Cork (125) | GS20-125 | Suitable for YDS-30-125 / YDS-35-125 / YDS-47-127 / YDS-35B-125 |
| | Lockable Cap | SG-125 | Suitable for container with 125mm neck opening |
| YDS-50B | Liquid Nitrogen Container | YDS-50B | Includes protective jacket only, roller base is optional |
| | Canister (TT38) | TT50-50 | Φ38 single tier canister, without goblets, suitable for YDS-50 |
| | Canister (TTS38) | TTS50-50 | Φ38 double-tier canister, 2 goblets included, suitable for YDS-50 |
| | Roller Base | YSC-S (2019) | Suitable for all 30L / 35L / 50L aluminium tank, equipped with 5 universal wheels |
| | SmartCap | LT-50-500 | Used to monitor level and temperature for containers with 50mm neck opening, data can be transmitted to cloud platform, suitable for YDS-50 |
| | Cork (50) | GS10-50 | Suitable for YDS-3 / YDS-3H / YDS-6 / YDS-10 / YDS-13 / YDS-25 / YDS-50B |
| | Lockable Cap | SG-50 | Suitable for container with 50mm neck opening |
| Other Racks | Rack (vertical type) | FDCJ-25-4 | Used to store 2ml cryo boxes (5*5), 4 layers in total, suitable for YDS-10\20\30-125 (plastic cryoboxes included) |
| | Rack (vertical type) | FDCJ-25-5 | Used to store 2ml cryo boxes (5*5), 5 layers in total, suitable for YDS-25\35-125; YDS-47-127 (plastic cryoboxes included) |
| | Rack (vertical type) | FDCJ-25-6 | Used to store 2ml cryo boxes (5*5), 6 layers in total, suitable for YDS-50B-125 (plastic cryoboxes included) |

Liquid Nitrogen Storage Solution

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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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