

**Haier Biomedical**  
Intelligent Protection of Life Science

# Dryshipper Series for Transportation (Round Canisters)



## Scope of Application

Dryshipper Series for Transportation (Round Canisters) is designed for safe sample transportation under cryogenic conditions (vapour phase storage, temperature under  $-190^{\circ}\text{C}$ ). Since the risk of  $\text{LN}_2$  release is avoided, it is suitable for air transportation of samples.

## Innovative Design

- Rugged and Durable
- Secure
- Vapour Phase Storage
- Cryo Absorbant
- 3 Years Vacuum Warranty
- No  $\text{LN}_2$  Spillage

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원문: Haier Biomedical Dryshipper Series for Transportation (Round Canisters) Dryshipper Series for Transportation (Round Canisters) · 제조사 원문 자료입니다. 사양은 제조사 사정에 따라 변경될 수 있습니다.

## Dryshipper Series for Transportation (Round Canisters)

### Key Features

- Straw and cryovial storage options
- Rugged and durable aluminium construction
- Designed to ensure no LN<sub>2</sub> spillage
- Vapour phase cryogenic storage
- Faster LN<sub>2</sub> fill times
- Lockable lids
- 3 years vacuum warranty

### Product Advantages

#### Liquid Nitrogen Adsorption

Adsorbent materials are used to absorb and retain LN<sub>2</sub> for safe transport. No spillover of LN<sub>2</sub> can occur even when the tank is capsized.

#### Stainless Steel Mesh

Special stainless steel mesh divides storage space and LN<sub>2</sub> absorbents to prevent absorbent materials from contaminating the samples.

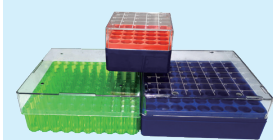
#### Complete Accessories Set

All models are offered a variety of stainless steel canisters and polycarbonate cryogenic boxes. Locking cover is optional.



### Accessories

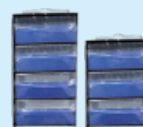
Plastic Cryo Box



Canister+Rack



Rack (vertical type)



Protective Case



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## Dryshipper Series for Transportation (Round Canisters)

### Technical Parameters

| Model                                      | YDH-3                                                                             | YDH-6-80                                                                          | YDH-10-125                                                                        | YDH-10-125                                                                          | YDH-15-216                                                                          | YDH-25-216                                                                          |
|--------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Picture                                    |  |  |  |  |  |  |
| Authentication                             | CE                                                                                | CE                                                                                | CE                                                                                | CE                                                                                  | CE                                                                                  | CE                                                                                  |
| Maximum Storage Capacity                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| No. of Canister / Rack                     | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1 Rack                                                                              | 1 Rack                                                                              | 1 Rack                                                                              |
| No. of Straws (0.5ml / EA)                 | 132                                                                               | 374                                                                               | 854                                                                               | -                                                                                   | -                                                                                   | -                                                                                   |
| No. of Straws (0.25ml / EA)                | 298                                                                               | 837                                                                               | 1940                                                                              | -                                                                                   | -                                                                                   | -                                                                                   |
| No. of 2.0 ml Cryovials                    | -                                                                                 | -                                                                                 | -                                                                                 | 100                                                                                 | 300                                                                                 | 500                                                                                 |
| No. of Boxes in ( 2ml per holder)          | -                                                                                 | -                                                                                 | -                                                                                 | 4                                                                                   | 3                                                                                   | 5                                                                                   |
| Performance                                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Absorbable Volume of LN <sub>2</sub> (L)   | 1.3                                                                               | 2.9                                                                               | 3.4                                                                               | 3.4                                                                                 | 6                                                                                   | 9                                                                                   |
| Static Evaporation* (L/Day)                | 0.16                                                                              | 0.2                                                                               | 0.43                                                                              | 0.43                                                                                | 1.5                                                                                 | 0.89                                                                                |
| Static Holding Time in Vapor Phase** (Day) | 8                                                                                 | 14                                                                                | 8                                                                                 | 8                                                                                   | 4                                                                                   | 10                                                                                  |
| Dimensions                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Opening Diameter (mm)                      | 50                                                                                | 80                                                                                | 125                                                                               | 125                                                                                 | 216                                                                                 | 216                                                                                 |
| Height (mm)                                | 445                                                                               | 500                                                                               | 625                                                                               | 625                                                                                 | 555                                                                                 | 730                                                                                 |
| Outside Diameter (mm)                      | 223                                                                               | 300                                                                               | 300                                                                               | 300                                                                                 | 394                                                                                 | 394                                                                                 |
| Canister Outside Diameter (mm)             | 38                                                                                | 63                                                                                | 97                                                                                | -                                                                                   | -                                                                                   | -                                                                                   |
| Outside Height (mm)                        | 120                                                                               | 120                                                                               | 120                                                                               | -                                                                                   | -                                                                                   | -                                                                                   |
| Empty Weight (kg)                          | 3.2                                                                               | 6.5                                                                               | 8.9                                                                               | 8.9                                                                                 | 13                                                                                  | 15                                                                                  |
| Full Weight (kg)                           | 4.7                                                                               | 8.9                                                                               | 12.5                                                                              | 12.5                                                                                | 17.8                                                                                | 23                                                                                  |
| Shipping Weight (kg)                       | 5.5                                                                               | 7.7                                                                               | 9.7                                                                               | 9.7                                                                                 | 15.2                                                                                | 20.5                                                                                |

\*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 in Vapor Phase: under the standard state (atmospheric pressure 101.325kPa, ambient temperature 20°C), after the container is filled with liquid nitrogen pre-cooled and reaches thermal equilibrium, the adsorption layer is filled with liquid nitrogen and there is no free liquid nitrogen, the number of days when the liquid nitrogen is completely evaporated on standing.

## Dryshipper Series for Transportation (Round Canisters)

### Product List

| Model      | Product                  | Product Model  | Description and Accessories                                                                                                                                                                                                                         |
|------------|--------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| YDH-3      | Dry Shipper              | YDH-3          | Includes 1 canister (Height 120mm), lockable cap and PU bag                                                                                                                                                                                         |
|            | Canister                 | TTH3-50        | Φ38, 120mm single tier canister, No goblet, suitable for YDH-3                                                                                                                                                                                      |
|            | Smart Cap                | T-50           | Used for monitoring real time temperature for containers with 50mm neck opening, 6 grooves and 180mm high cork, data can be transmitted to Haier's IoT platform. suitable for YDH-3                                                                 |
|            | Cork (50)                | GS-50-180      | Suitable for YDS-3/YDH-3/YDS-6/YDS-10/YDS-13/YDS-25/YDS-50B                                                                                                                                                                                         |
|            | Lockable Cap             | SG-50          | Suitable for container with 50mm neck opening                                                                                                                                                                                                       |
| YDH-6-80   | Dry Shipper              | YDH-6-80       | Includes 1 canister (Height 120mm), lockable cap and PU bag                                                                                                                                                                                         |
|            | Canister                 | TTH6-80        | Φ63, 120mm single tier canister, No goblet, suitable for YDH-6-80                                                                                                                                                                                   |
|            | Smart Cap                | T-80           | Used for monitoring real time temperature for containers with 80mm neck opening, 6 grooves and 180mm high cork, data can be transmitted to Haier's IoT platform. suitable for YDH-6-80                                                              |
|            | Cork (80)                | GS-80-180      | Suitable for YDH-6-80/YDS-10-80                                                                                                                                                                                                                     |
|            | Lockable Cap             | SG-80          | Suitable for container with 80mm neck opening                                                                                                                                                                                                       |
| YDH-10-125 | Dry Shipper              | YDH-10-125     | Includes 1 rack(4 layers), 5*5 cryoboxes, lockable cap and PU bag                                                                                                                                                                                   |
|            | Dry Shipper              | YDH-10-125     | Includes lockable cap and PU bag; No Rack                                                                                                                                                                                                           |
|            | 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                                                                                                                                                                                 |
|            | Smart Cap                | 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                                                                                                                                                                                            |
|            | Protective Case X        | HKX-300/660    | Suitable for YDH-10-125                                                                                                                                                                                                                             |
| YDH-15-216 | Dry Shipper              | YDH-15-216     | Includes 1 rack(3 layers), 9*9 cryoboxes, lockable cap and PU bag                                                                                                                                                                                   |
|            | Rack (Vertical Type)     | FDCJ-81-3H     | Used for storing 9*9 cryo boxes(2ml), 3 layers in total. With 9*9 cryoboxes included. Suitable for YDH-15-216                                                                                                                                       |
|            | Smart Cap                | T-216          | Used for monitoring real time temperature for containers with 216mm neck opening, 6 grooves and 150mm high cork, data can be transmitted to Haier's IoT platform. suitable for YDH-15-216                                                           |
|            | Cork (216-2)             | GS-216-150 (L) | Suitable for YDH-15-216                                                                                                                                                                                                                             |
|            | Lockable Cap             | SG-216         | Suitable for container with 216mm neck opening                                                                                                                                                                                                      |
| YDH-25-216 | Dry Shipper              | YDH-25-216     | Includes 1 rack(5 layers), 9*9 cryoboxes, lockable cap and PU bag                                                                                                                                                                                   |
|            | Rack (Vertical Type)     | FDCJ-81-5H     | Used for storing 9*9 cryo boxes(2ml), 5 layers in total, with 9*9 cryoboxes included. suitable for YDH-25-216/YDS-95-216                                                                                                                            |
|            | Smart Cap                | T-216          | Used for monitoring real time temperature for containers with 216mm neck opening, 6 grooves and 210mm high cork, data can be transmitted to Haier's IoT platform. suitable for YDH-25-216/YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216 |
|            | Cork (216)               | GS-216-220-7   | Suitable for YDS-65-216/YDS-95-216/YDS-115-216/YDS-145-216/YDS-175-216/YDH-15-216/YDH-25-216                                                                                                                                                        |
|            | Lockable Cap             | SG-216         | Suitable for container with 216mm neck opening                                                                                                                                                                                                      |
|            | Protective Shipping Case | HKX-694        | Mushroom Type, Suitable for YDH-25-216                                                                                                                                                                                                              |
|            | Protective Case          | HKX-394/800    | Suitable for YDH-25-216                                                                                                                                                                                                                             |

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