Haier Liquid Nitrogen Storage System
Biobank Series for Large Scale Storage

LN$_2$ Splash Proof

Data Logging

Quick Chill

Rapid Specimen Storage

5 Year Vacuum Warranty

From 13000 to 94875 Cryovials

Self Diagnostic

"Dry" Sample Storage

Lockable Lid

Liquid or Vapor Phase Storage

One-touch Defogging

Haier

YDD-1000-465

Biobank Series for Large Scale Storage

Introduction

Biobank series for large scale storage is designed to ensure the maximum storage capacity with the minimum consumption of liquid nitrogen to lower the overall cost of operation .

Key Features

- Massive capacity between 13000 to 94875×2ml Vials
- Vapor phase storage is the only guaranteed method to prevent cross-contamination
- Vapor phase storage at -190℃
- 5 years vacuum warranty

- One-touch defogging for easier access
- LN$_2$ splash proof ensures a safer operation
- Biobank storage compatible

Product Advantages

Optimal Use of Storage Space

Racks are stored on the rotating tray with an appropriate distance from the wall of the chamber. Liquid nitrogen or supercooled nitrogen vapor is filled in the space between the tray and the wall to maintain temperature uniformity. Storage space is equally divided into four or six fan-shaped storage rooms which are clearly labeled. Each storage room is easily rotated to the opening of the tank for convenient sample access.

Designed for Both Liquid and Vapor Phase Storages

Each model of Biobank series for large scale storage is designed for both liquid and vapor phase storages. For vapor phase storage, samples are kept away from the liquid nitrogen while stored in a uniform temperature that is close to the temperature range

Advanced Vacuum Technology and Superinsulation Technology

Haier Liquid Nitrogen Storage System Biobank series for large scale storage applies advanced vacuum technology and superinsulation technology to ensure storage safety and temperature uniformity while reducing the consumption of liquid nitrogen. The temperature difference of the entire storage area does not exceed 10℃ even in vapor phase storage, Temperature near the top of the shelf is as low as -190℃.
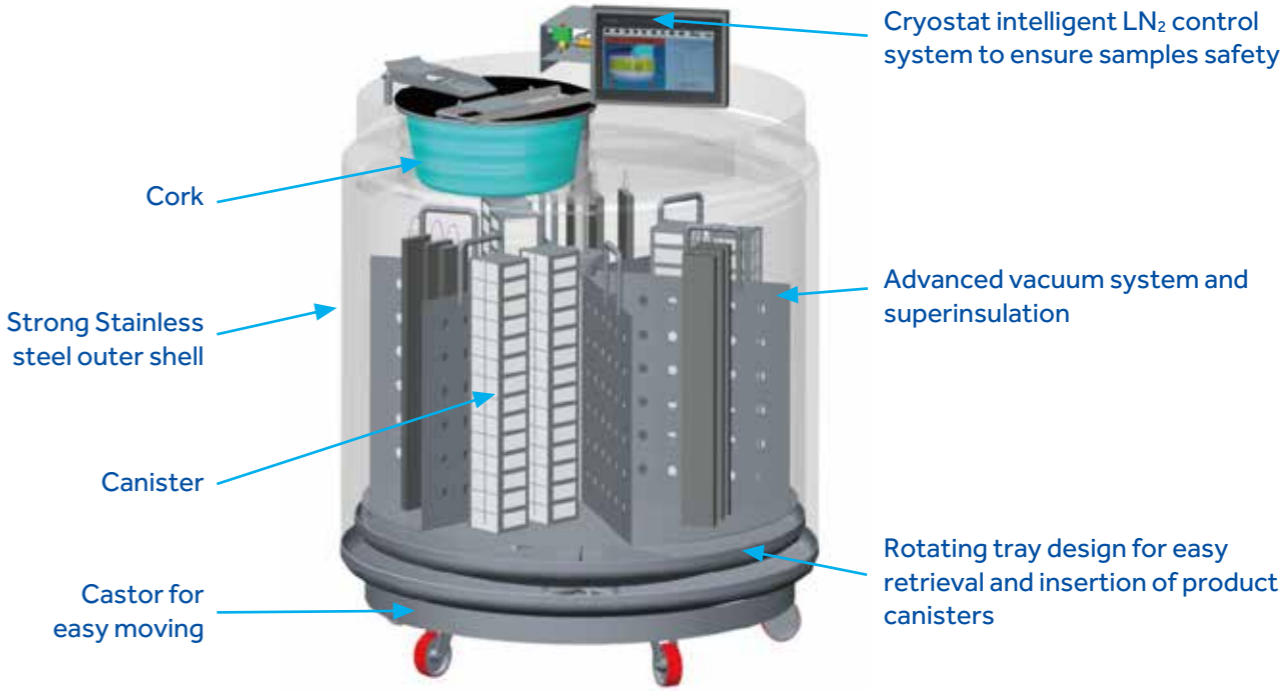
Cryosmart Intelligent Liquid Nitrogen Control System

Haier Liquid Nitrogen Storage System Biobank series for large scale storage features Cryosmart system for complete monitoring and controlling. High-precision temperature and liquid level censors are used to ensure accuracy. All data and samples are protected by a secure access control system.

Product Details

Product structure

- Cryostat intelligent LN$_2$ control system to ensure samples safety
- Cork
- Strong Stainless steel outer shell
- Advanced vacuum system and superinsulation
- Canister
- Rotating tray design for easy retrieval and insertion of product canisters
- Castor for easy moving

Top of the Container

Lid Open

A Low-temperature hose connects the inlet and a liquid nitrogen tank for supplement. A silencer reduces the noise of nitrogen emission for a quiet environment.

Vapor condensation near the container opening is controlled. The strength of the container is reinforced at liquid nitrogen temperature to extend service life.
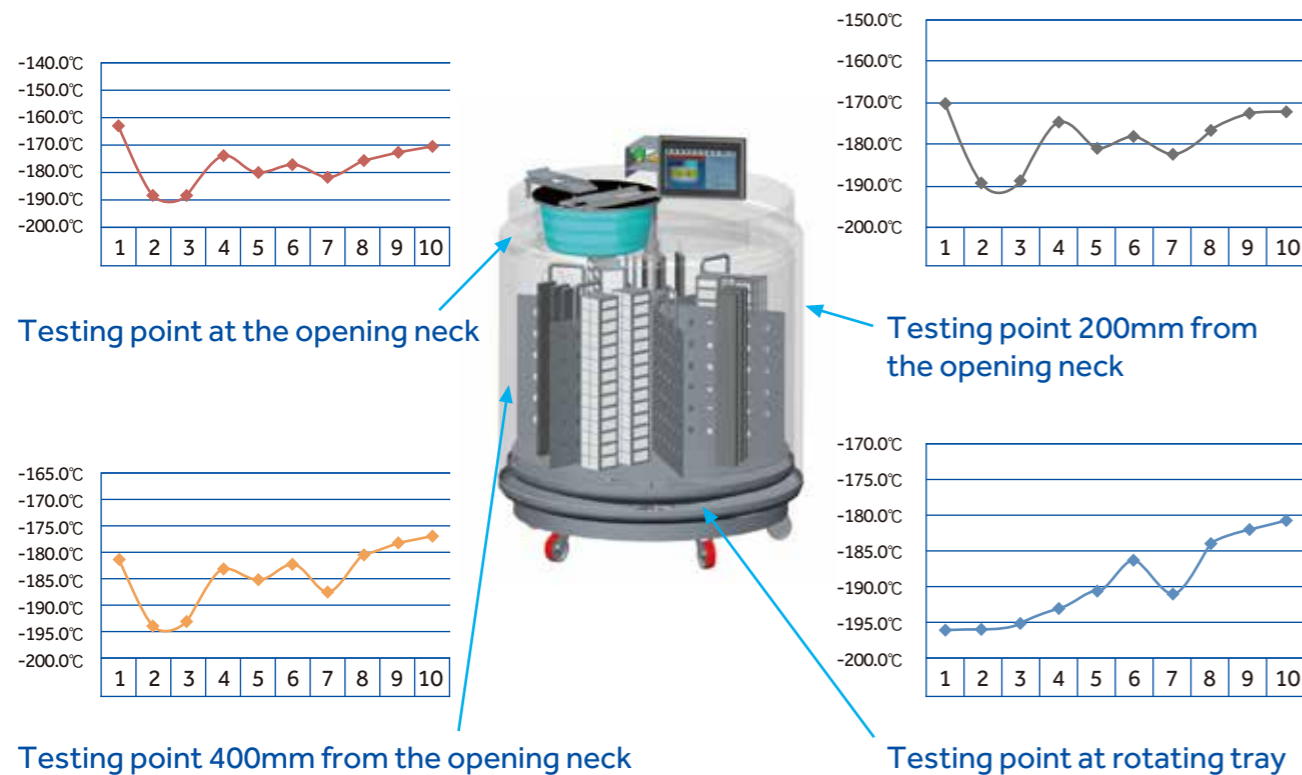
Small self-pressurized liquid nitrogen supply system suitable for research institutes to handle fewer samples.
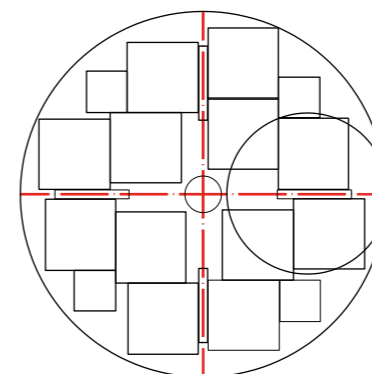
Temperature Graph

10 times testing data within 5 days

-140.0℃
-150.0℃
-160.0℃
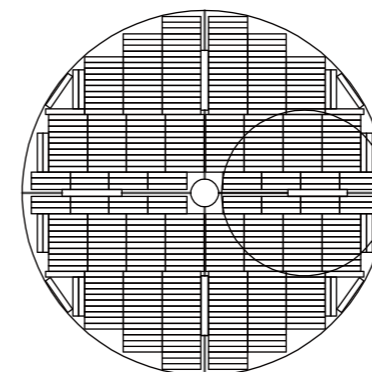-170.0℃
-180.0℃
-190.0℃
-200.0℃
1 2 3 4 5 6 7 8 9 10

Testing point at the opening neck

-150.0℃
-160.0℃
-170.0℃
-180.0℃
-190.0℃
-200.0℃
1 2 3 4 5 6 7 8 9 10

Testing point 200mm from the opening neck

-165.0℃
-170.0℃
-175.0℃
-180.0℃
-185.0℃
-190.0℃
-195.0℃
-200.0℃
1 2 3 4 5 6 7 8 9 10

Testing point 400mm from the opening neck

-170.0℃
-175.0℃
-180.0℃
-185.0℃
-190.0℃
-195.0℃
-200.0℃
1 2 3 4 5 6 7 8 9 10

Testing point at rotating tray

Square Canister&Racks Layout

YDD-300-326   YDD-550-445

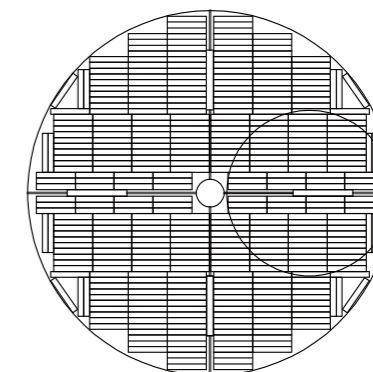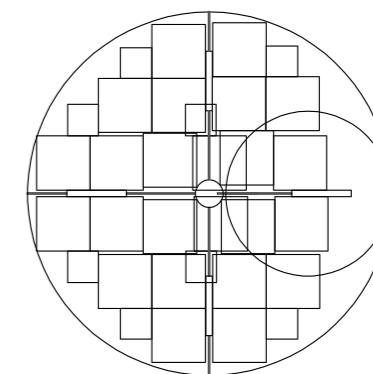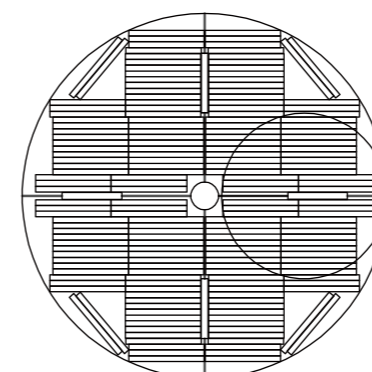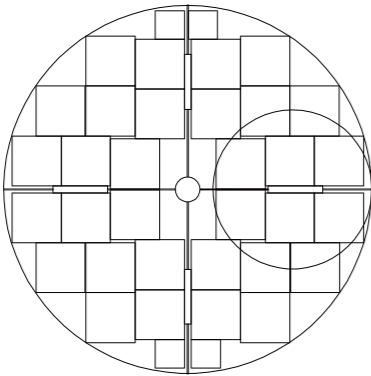Holders

25 ml Racks
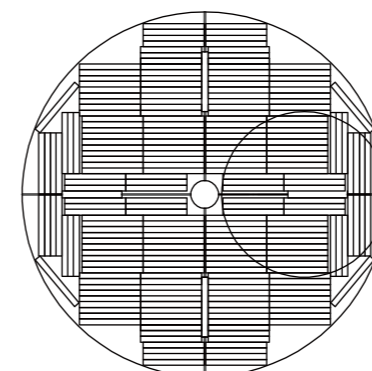
50 ml Racks
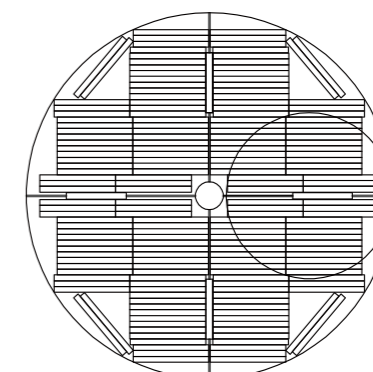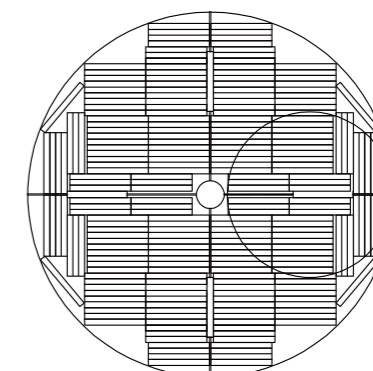
250 ml Racks

YDD-850-465   **YDD-1800-635**

Holders
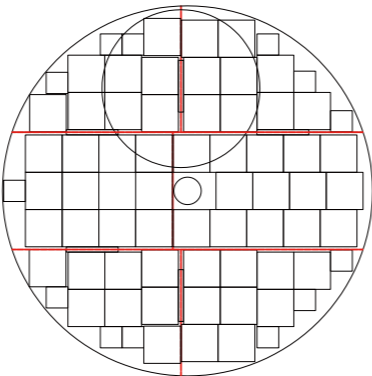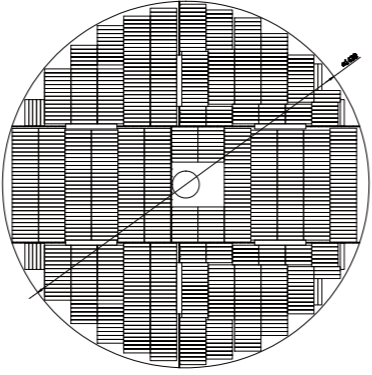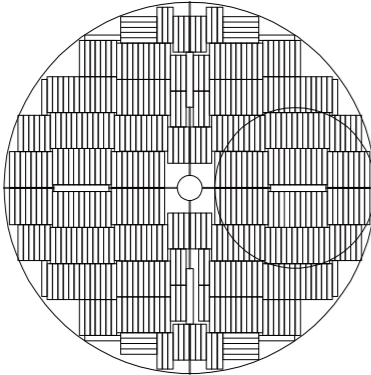
25 ml Racks

50 ml Racks

250 ml Racks

Technical Parameters

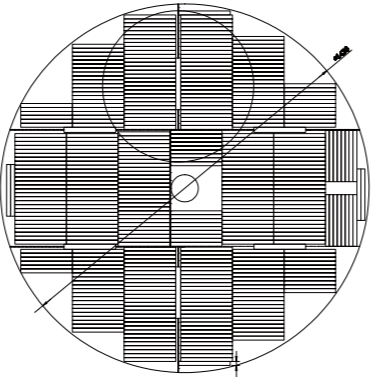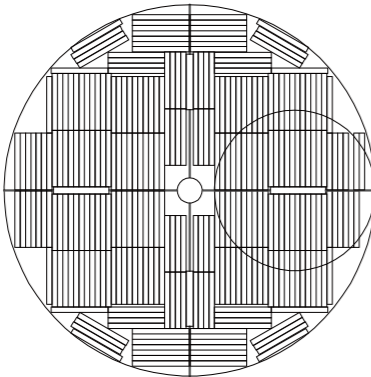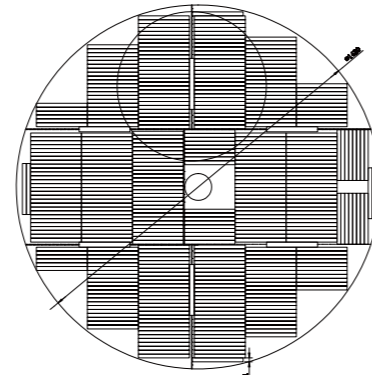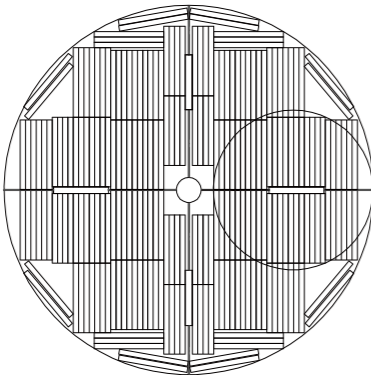| Model	YDD-300 -326	YDD-550 -445	YDD-750 -445	YDD-850 -465	YDD-1000 -465	YDD-1300 -635	YDD-1600 -635	YDD-1800 -635
Maximum Storage Capacity								
2 ml Vials (Internal Thread)	13000	26000	36400	42900	49500	58500	76050	94875
Freeze Rack (100 wells)	12	24	24	32	32	54	54	60
Freeze Rack (25 wells)	4	8	8	4	4	18	18	13
Layers of each rack	10	10	14	13	15	10	13	15
0.5 ml Vials (Internal Thread)	16900	33800	49400	56100	66000	81900	99450	126500
Freeze Rack (100 wells)	12	24	24	32	32	54	54	60
Freeze Rack (25 wells)	4	8	8	4	4	18	18	13
Layers of each rack	13	13	19	17	20	14	18	20
Performance								
Volume of LN_2 (L)	350	587	783	890	1014	1340	1660	1880
Volume of LN_2 under the tray (L)	55	80	80	135	135	265	300	320
Static Evaporation(L/Day)	≤4	≤8	≤9	≤8	≤8	≤8	≤10.5	≤12.5
Dimensions								
Inside Neck Diameter (MM)	326	445	445	465	465	635	635	635
Height (MM)	1180	1266	1591	1559	1704	1398	1589	1883
Operating Height (MM)	1200	1321	1216	980	950	997	967	1097
Outside Diameter (MM)	875	1104	1104	1190	1190	1565	1565	1565
Door Width Requirement (MM)	1000	1124	1124	1210	1210	1585	1585	1585
Empty Weight (KG)	219	328	372	441	495	851	914	984
Gross Weight (KG)	490	802	1005	1160	1314	1934	2255	2504

Blood bag capacity

Model	YDD-350 -326			YDD-550 -445			YDD-750 -445			YDD-850 -465			YDD-1000 -465			YDD-1300 -635			YDD-1600 -635			YDD-1800 -635		
	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks	Total No.of Bags	Rack Layers	No.of Racks
25 ml	1296	7	216	2376	6	396	3168	8	396	3360	7	480	4320	9	480	4716	6	786	5502	7	786	7758	9	862
50 ml	792	7	132	1416	6	236	1888	8	236	2072	7	296	2664	9	296	2916	6	486	3402	7	486	4905	9	545
250 ml	300	4	100	552	3	184	920	5	184	944	4	236	1180	5	236	1170	3	390	1950	5	390	2095	5	419
500 ml (DF200)	168	4	56	336	3	112	560	5	112	544	4	136	680	5	136	666	3	222	888	4	222	1290	5	258
500 ml (4R9955)	192	4	64	408	3	136	680	5	136	640	4	160	800	5	160	828	3	276	1380	5	276	1520	5	304
700 ml	96	4	32	204	3	68	272	4	68	320	4	80	400	5	80	396	3	132	528	4	132	775	5	155

Product List

Model	Description	Accessories	
		Standard	**Optional**
Aluminium Alloy Series for Storage			
YDS-65-216	65L, neck opening diameter 216mm	1. Includes a locking cover SG-216. 2. Includes a cork with neck opening diameter of 125mm	1. 4-layer Square Canister (FTT-4-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-65-216-F	65L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 4-layer square canisters (FTT-4-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay ModuleSW-300 (Required for cork networking)
YDS-95-216	95L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm	1. 5-layer Square Canister (FTT-5-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-95-216-F	95L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 5-layer square canisters (FTT-5-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay Module SW-300 (Required for cork networking)
YDS-115-216	115L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm	1. 6-layer Square Canister (FTT-6-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-115-216-F	115L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 6-layer square canisters (FTT-6-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M
YDS-140-216	140L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm	1. 8-layer Square Canister (FTT-8-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-140-216-F	140L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 8-layer square canisters (FTT-8-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay Module SW-300 (Required for cork networking)
YDS-140-216-F	140L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 8-layer square canisters (FTT-8-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay Module SW-300 (Required for cork networking)
YDS-175-216	175L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm	1. 10-layer Square Canister (FTT-10-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-175-216	175L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm	1. 10-layer Square Canister (FTT-10-99) 2. Trolley YSC-M 3. Level Monitoring System ZTC-100A 4. Level Measuring Scale 5. SmartCap LT-216 6. Relay Module SW-300 (Required for cork networking)
YDS-175-216-F	175L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 10-layer square canisters (FTT-10-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay Module SW-300 (Required for cork networking)
YDS-175-216-F	175L, neck opening diameter 216mm	1. Includes a locking cover SG-216 2. Includes a cork with neck opening diameter of 125mm 3. Includes 6 10-layer square canisters (FTT-10-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	1. Trolley YSC-M 2. Level Monitoring System ZTC-100A 3. Level Measuring Scale 4. SmartCap LT-216 5. Relay Module SW-300 (Required for cork networking)

High Capacity Series Storage or Transport (page 35)

Model	Description	Accessories — Standard	Accessories — Optional
Self Pressurization Type			
YDZ-5	5L, neck opening diameter40mm, height 510mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	/
YDZ-15	15L, neck opening diameter 40mm, height 750mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	/
YDZ-30	30L, neck opening diameter 40mm, height 879mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-30)
YDZ-50	50L, neck opening diameter 40mm, height 991mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-50)
YDZ-100	100L, neck opening diameter 40mm, height 1185mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-100)
YDZ-150	150L, neck opening diameter 40mm, height 1188mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-150)
YDZ-200	200L, neck opening diameter 40mm, height 1265mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-200)
YDZ-300	300L, neck opening diameter 40mm, height 1459mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-300)
YDZ-500	500L, neck opening diameter 40mm, height 1576mm	Includes single-layer transfusion hoses (GZ-DN15/1.5)	Float-Type Liquidometer (FZ-500)
High Capacity Series Storage or Transport			
YDS-2-30	2L, neck opening diameter 30mm	1. Includes 3 canisters (TT-30D) 2. Protective jacket	Locking Cover SG-30
YDS-3	3L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50D 2. Locking Cover SG-50
YDS-6	6L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50D 2. Locking Cover SG-50
YDS-10	10L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50D 2. Locking Cover SG-50
YDS-10-80	10L, neck opening diameter 80mm	Protective jacket	1. Canister TT-80D 2. Locking Cover SG-80
YDS-10-125	10L, neck opening diameter 125mm	/	1. Canister TT-125D 2. Locking Cover SG-125
YDS-13	13L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50D 2. Locking Cover SG-50
YDS-15	15L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50D 2. Locking Cover SG-50
YDS-20	20L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-30	30L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-30-80	30L, neck opening diameter 80mm	Protective jacket	1. Canister TT-80D 2. Locking Cover SG-80 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-30-125	30L, neck opening diameter 125mm	Protective jacket	1. Canister TT-125D 2. Locking Cover SG-125 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-35	35L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-35-80	35L, neck opening diameter 80mm	Protective jacket	1. Canister TT-80D 2. Locking Cover SG-80 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-35-125	35L, neck opening diameter 125mm	Protective jacket	1. Canister TT-125S, TT-125D 2. Locking Cover SG-125 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-47-127	47L, neck opening diameter 127mm	1. Includes 10 round canisters with diameter of 72mm and length of 276mm 2. Includes a locking cover SG-125	1. Trolley YSC-S 2. Level Monitoring System ZTC-100A
YDS-20B	20L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-30B	30L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-35B	35L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-35B-80	35L, neck opening diameter 80mm	Protective jacket	1. Canister TT-80D 2. Locking Cover SG-80 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A

(page 36)

Model	Description	Accessories — Standard	Accessories — Optional
High Capacity Series Storage or Transport			
YDS-35B-125	35L, neck opening diameter 125mm	Protective jacket	1. Canister TT-125S, TT-125D 2. Locking Cover SG-125 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-50B	50L, neck opening diameter 50mm	Protective jacket	1. Canister TT-50S, TT-50D 2. Locking Cover SG-50 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
YDS-50B-125	50L, neck opening diameter 125mm	Protective jacket	1. Canister TT-125S, TT-125D 2. Locking Cover SG-125 3. Trolley YSC-S 4. Level Monitoring System ZTC-100A
Dryshipper Series for Transportation			
YDH-3	Adsorption 1.3L, neck opening diameter 50mm	1. Protective jacket 2. Locking cover SG-50 3. 1*120mm round canister	/
YDH-6-80	Adsorption 2.9L, neck opening diameter 80mm	1. Protective jacket 2. Locking cover SG-80 3. 1*120mm round canister	/
YDH-10-125	Adsorption 3.4L, neck opening diameter 125mm	1. Protective jacket 2. Locking cover SG-125	1. 1 4-layer Square Canister (FTT-4-55) 2. Level Monitoring System ZTC-100A
YDH-10-125-F	Adsorption 3.4L, neck opening diameter 125mm	1. Protective jacket 2. Locking cover SG-125 3. 1* 4-layer square canister (FTT-4-55)	Level Monitoring System ZTC-100A
YDH-25-216-F	Adsorption 9L, neck opening diameter 216mm	1. Locking cover SG-216 2. 1*5-layer square canister (FTT-5-99)	Level Monitoring System ZTC-100A
Small Sized Storage Series			
YDS-30-125-F	30L, neck opening diameter 125mm	1. Locking cover SG-125 2. Protective jacket 3. 6*4-layer square canisters (FTT-4-55)	1. Trolley YSC-S 2. Level Monitoring System ZTC-100A
YDS-35-125-F	35L, neck opening diameter 125mm	1. Locking cover SG-125 2. Protective jacket 3. 6*5-layer square canisters (FTT-5-55)	1. Trolley YSC-S 2. Level Monitoring System ZTC-100A
YDS-47-127-6YS	47L, neck opening diameter 127mm	1. Locking cover SG-125 2. 6*5-layer round-cell canisters (including 37-cell cryogenic boxes)	1. Trolley YSC-S 2. Level Monitoring System ZTC-100A
YDS-50B-125-F	50L, neck opening diameter 125mm	1. Locking cover SG-125 2. Protective jacket 3. 6*6-layer square canisters (FTT-6-55)	1. Trolley YSC-S 2. Level Monitoring System ZTC-100A
Biobank Series for Large Scale Storage			
YDD-300-326	300L, neck opening diameter 326mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-10-55 2. Square Canister FTT-10-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-6 5. 250ml Blood Bag Cryogenic Rack YDCJ-3 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
YDD-550-445	550L, neck opening diameter 445mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-10-55 2. Square Canister FTT-10-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-6 5. 250ml Blood Bag Cryogenic Rack YDCJ-3 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
YDD-750-445	750L, neck opening diameter 445mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-12-55 2. Square Canister FTT-12-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 250ml Blood Bag Cryogenic Rack YDCJ-5-II 5. Level Measuring Scale 1000mm 6. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
YDD-850-465	850L, neck opening diameter 465mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-13-55 2. Square Canister FTT-13-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-7 5. 250ml Blood Bag Cryogenic Rack YDCJ-4 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
YDD-1000-465	1000L, neck opening diameter 465mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-15-55 2. Square Canister FTT-15-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-9 5. 250ml Blood Bag Cryogenic Rack YDCJ-5-II 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
YDD-1300-635	1300L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-10-55 2. Square Canister FTT-10-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-6 5. 250ml Blood Bag Cryogenic Rack YDCJ-3 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box

Left Table

Model		Description	Accessories	
			Standard	Optional

	Model	Description	Standard	Optional
Biobank Series for Large Scale Storage	YDD-1600-635	1600L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-13-55 2. Square Canister FTT-13-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-7 5. 250ml Blood Bag Cryogenic Rack YDCJ-4 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
	YDD-1800-635	1800L, neck opening diameter 635mm	Includes vacuum hoses (GRG-DN10/2.0)	1. Square Canister FTT-15-55 2. Square Canister FTT-15-99 3. Cryosmart Level Monitoring System SJMU-700N 4. 50ml Blood Bag Cryogenic Rack YDCJ-9 5. 250ml Blood Bag Cryogenic Rack YDCJ-5-II 6. Level Measuring Scale 1000mm 7. 5*5 Cryogenic Box, 9*9 Cryogenic Box, 10*10 Cryogenic Box
Smart Series	YDS-65-216-FZ	65L, neck opening diameter 216mm	1. Includes an intelligent locking cover 2. Includes a cork with neck opening diameter of 216mm 3. Includes 6*4-layer square canisters (FTT-4-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M
	YDS-95-216-FZ	95L, neck opening diameter 216mm	1. Includes an intelligent locking cover 2. Includes a cork with neck opening diameter of 216mm 3. Includes 6 5-layer square canisters (FTT-5-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M
	YDS-115-216-FZ	115L, neck opening diameter 216mm	1. Includes an intelligent locking cover 2. Includes a cork with neck opening diameter of 216mm 3. Includes 6 6-layer square canisters (FTT-6-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M
	YDS-145-216-FZ	145L, neck opening diameter 216mm	1. Includes an intelligent locking cover 2. Includes a cork with neck opening diameter of 216mm 3. Includes 6 8-layer square canisters (FTT-8-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M
	YDS-175-216-FZ	175L, neck opening diameter 216mm	1. Includes an intelligent locking cover 2. Includes a cork with neck opening diameter of 216mm 3. Includes 6 10-layer square canisters (FTT-10-99) 4. Includes 9*9 cryogenic boxes (may be changed for 10*10)	Trolley YSC-M

Left Bottom Table

Accessories	Model	Picture	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
Square Canister	Square Canister FTT-4-55		YDS-30-125/YDS-10-125	Optional	80×82×575	0.42	Used to store 2ml cryogenic boxes (5*5); four layers in total, including 5x5 cryogenic boxes; suitable for YDS-30-125/YDS-10-125 (including plastic cryogenic boxes)
	Square Canister FTT-5-55		YDS-35-125\YDS-47-127	Optional	80×82×610	0.48	Used to store 2ml cryogenic boxes (5*5); five layers in total, including 5x5 cryogenic boxes; suitable for YDS-35-125\YDS-47-127 (including plastic cryogenic boxes)
	Square Canister FTT-6-55		YDS-50-125	Optional	80×82×710	0.55	Used to store 2ml cryogenic boxes (5*5): six layers in total, including 5x5 cryogenic boxes: suitable for YDS-50-125 (including plastic cryogenic boxes)
	Square Canister FTT-10-55		YDD-350\550\1300	Optional	82×84×565	1.05	Used to store 2ml cryogenic boxes (5*5); ten layers in total; suitable forYDD-350\550\1300 (excluding cryogenic boxes)
	Square Canister FTT-13-55		YDD-850\1600	Optional	82×84×733	1.37	Used to store 2ml cryogenic boxes (5*5); thirteen layers in total; suitable for YDD-850\1600 (excluding cryogenic boxes)
	Square Canister FTT-15-55		YDD-1000\1800X2000	Optional	82×84×845	1.58	Used to store 2ml cryogenic boxes (5*5); fifteen layers in total; suitable for YDD-1000\1800X2000 (excluding cryogenic boxes)
	Square Canister FTT-4-99		YDS-65-216	Optional	142×144×565	0.88	Used to store 2ml cryogenic boxes (9*9); four layers in total, including 9x9 cryogenic boxes; suitable for YDS-65-216 (including plastic cryogenic boxes)

Right Table

Accessories	Model	Picture	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
Square Canister	Square Canister FTT-4-55		YDS-30-125/YDS-10-125	Optional	80×82×575	0.42	Used to store 2ml cryogenic boxes (5*5); four layers in total, including 5x5 cryogenic boxes; suitable for YDS-30-125/YDS-10-125 (including plastic cryogenic boxes)
	Square Canister FTT-5-55		YDS-35-125\YDS-47-127	Optional	80×82×610	0.48	Used to store 2ml cryogenic boxes (5*5); five layers in total, including 5x5 cryogenic boxes; suitable for YDS-35-125\YDS-47-127 (including plastic cryogenic boxes)
	Square Canister FTT-6-55		YDS-50-125	Optional	80×82×710	0.55	Used to store 2ml cryogenic boxes (5*5): six layers in total, including 5x5 cryogenic boxes: suitable for YDS-50-125 (including plastic cryogenic boxes)
	Square Canister FTT-10-55		YDD-350\550\1300	Optional	82×84×565	1.05	Used to store 2ml cryogenic boxes (5*5); ten layers in total; suitable forYDD-350\550\1300 (excluding cryogenic boxes)
	Square Canister FTT-13-55		YDD-850\1600	Optional	82×84×733	1.37	Used to store 2ml cryogenic boxes (5*5); thirteen layers in total; suitable for YDD-850\1600 (excluding cryogenic boxes)
	Square Canister FTT-15-55		YDD-1000\1800X2000	Optional	82×84×845	1.58	Used to store 2ml cryogenic boxes (5*5); fifteen layers in total; suitable for YDD-1000\1800X2000 (excluding cryogenic boxes)
	Square Canister FTT-4-99		YDS-65-216	Optional	142×144×565	0.88	Used to store 2ml cryogenic boxes (9*9); four layers in total, including 9x9 cryogenic boxes; suitable for YDS-65-216 (including plastic cryogenic boxes)
	Square Canister FTT-5-99		YDS-95-216\YDS-25H-216	Optional	142×144×630	0.95	Used to store 2ml cryogenic boxes (9*9); five layers in total, including 9x9 cryogenic boxes; suitable for YDS-95-216\YDS-25H-216 (including plastic cryogenic boxes)
	Square Canister FTT-6-99		YDS-115-216	Optional	142×144×690	1.08	Standard accessories include no canister; including protective jacket and excluding locking cover; maximum 6 canisters are optional
	Square Canister FTT-8-99		YDS-145-216	Optional	142×144×795	1.30	Used to store 2ml cryogenic boxes (9*9); 8 layers in total, including 9x9 cryogenic boxes; suitable for YDS-145-216 (including plastic cryogenic boxes)
	Square Canister FTT-10-99		YDD-350\550\1300	Optional	142×144×915	1.48	Used to store 2ml cryogenic boxes (9*9): ten layers in total; suitable for YDD-350\550\\1300 (excluding cryogenic boxes)
	Square Canister FTT-10-99 (with boxes)		YDS-175-216- F	Optional	142×144×565	2.10	10 layers in total, including 9x9 cryogenic boxes; suitable for YDS-175-216- F
	Square Canister FTT-13-99		YDD-850\1600	Optional	142×144×733	2.66	Used to store 2ml cryogenic boxes (9*9): 13 layers in total; suitable for YDD-850\I600 (excluding cryogenic
	Square Canister FTT-15-99		YDD-1000\1800\2000	Optional	142×144×845	3.15	Used to store 2ml cryogenic boxes (9*9); 15 layers in total; Suitable for YDD-1000\1800\2000(excluding cryogenic boxes)
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
	Level Monitoring System ZTC-100B		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; with output switch control signal and direct-driven solenoid
	Level Monitoring System ZTC-100C		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; with output switch control signal and direct-driven solenoid
	Cryosmart Level Monitoring System SJMU-700N		Suitable for Only YDD series	Optional	175×195×85	3.21	Suitable for all differential pressure measurement gas-phase liquid nitrogen containers; including the liquid inlet system and excluding the wireless data transmission module

Accessories	Model	Picture	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
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	0.42	Used to store 2ml cryogenic boxes (5*5); four layers in total, including 5x5 cryogenic boxes; suitable for YDS-30-125/YDS-10-125 (including plastic cryogenic boxes)
	Trolley YSC-M		Suitable for 65-175L series of products; configured with 5 universal casters	Optional	80×82×610	0.48	Used to store 2ml cryogenic boxes (5*5); five layers in total, including 5x5 cryogenic boxes; suitable for YDS-35-125\YDS-47-127 (including plastic cryogenic boxes)
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: 60cm)	Optional	60	0.12	Suitable for aluminium containers with capacity of no less than 20L (measuring length 60cm)
	Level Measuring Scale (1000MM)		Suitable for aluminum containers below 20L (measuring length: 100cm)	Optional	100	0.18	Suitable for aluminium containers with capacity of no less than 20L (measuring length 100cm)
Cryogenic Rack	Cryogenic Rack YDCJ-6	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 6 layers in total; including blood bag cryogenic box; suitable for YDD-300\550\1300	Optional	Customized model	/	Used to store 50ml blood bag; 6 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-350\550\l 300
	Cryogenic Rack YDCJ-7	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 7 layers in total; including blood bag cryogenic box; suitable for YDD-850\1600	Optional	Customized model	/	Used to store 50ml blood bag; 7 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-850\1600
	Cryogenic Rack YDCJ-9	Irregular inventory; no picture available; to be customized	For 50ml blood bag; 1 blood bag in each cryogenic rack layer; 9 layers in total; including blood bag cryogenic box; suitable for YDD-1000\1800\2100	Optional	Customized model	/	Used to store 50ml blood bag; 9 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-1000\ 18OO\2100
	Cryogenic Rack YDCJ-3	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 3 layers in total; including blood bag cryogenic box; suitable for YDD-350\550\1300	Optional	Customized model	/	Used to store 250ml blood bag; 3 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-350\550\1300
	Cryogenic Rack YDCJ-4	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 4 layers in total; including blood bag cryogenic box; suitable for YDD-850	Optional	Customized model	/	Used to store 250ml blood bag; 4 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-850
	Cryogenic Rack YDCJ-5-11	Irregular inventory; no picture available; to be customized	For 250ml blood bag; 1 blood bag in each cryogenic rack layer; 5 layers in total; including blood bag cryogenic box; suitable for YDD-450\750\1000\1800\1900\2000	Optional	Customized model	/	Used to store 250ml blood bag; 5 layers in total with each layer storing one blood bag; including blood bag cryogenic boxes; suitable for YDD-750\1000\1800\l900X2000
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
	Cork with neck opening diameter of 216mm		Suitable for corks with opening diameter of 216	Optional	220×220×210	0.51	Suitable for neck opening diameter of 216mm
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
	Locking Cover SG-216		Suitable for locking cover with opening diameter of 216	Optional	280×280×150	1.10	Suitable for neck opening diameter of 216mm

Accessories	Model	Picture	Applicable Model	Standard Equipped or Optional	Exterior Dimensions (mm)	Gross Weight (kg)	Other Description
Canister	Canister TT-30D		Suitable for 120mm round canister with neck opening diameter of 30	Optional	Φ25×330	0.05	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	0.05	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	0.08	Diameter of 38mm,height of 276mm, double layered canister, excluding 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	0.16	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
Float-Type Liquidometer	FZ-30		Suitable for 30L self-pressurization containers	Optional	/	/	Suitable for YDZ-30
	FZ-50		Suitable for 50L self-pressurization containers	Optional	/	/	Suitable for YDZ-50
	FZ-100		Suitable for 100L self-pressurization containers	Optional	/	/	Suitable for YDZ-100
	FZ-150		Suitable for 150L self-pressurization containers	Optional	/	/	Suitable for YDZ-150
	FZ-175		Suitable for 175L self-pressurization containers	Optional	/	/	Suitable for YDZ-175
	FZ-200		Suitable for 200L self-pressurization containers	Optional	/	/	Suitable for YDZ-200
	FZ-300		Suitable for 300L self-pressurization containers	Optional	/	/	Suitable for YDZ-300
	FZ-500		Suitable for 500L self-pressurization containers	Optional	/	/	Suitable for YDZ-500
Cryogenic Gloves	Special for low temperature, 32cm in length		Universal	Optional	320×150×10	0.08	Overall length 320mm
	Special for low temperature, 45cm in length		Universal	Optional	450×180×10	0.10	Overall length 450mm
	Special for low temperature, 72cm in length		Universal	Optional	720×200×20	0.12	Overall length720mm
Flexible Metal Tubing	GZ-DN15/1.5		Drift diameter: 10mm; length: 1.5m; special for self-pressurization containers	Optional	1500×20×20	1.20	Diameter of 10mm, length of 1.5M, suitable for YDZ series
	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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