



Quality Professional Service Innovation



JX Cryo

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Company Introduction

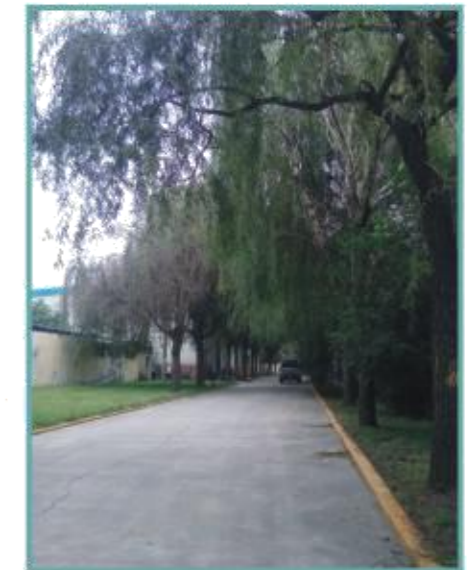
In order to cooperate with the development of China's aerospace industry, JX Cryo was founded in 1978, with the mission of cryogenic system in military projects. In the past four decades, JX Cryo gradually focused its capacity on civil cryogenic equipments and solutions.

Under our innovation and market's driving, JX Cryo product portfolio now includes Stainless Steel Cryogenic Freezers, Aluminum Dewars, Bulk Storage tanks, Supply Cylinders and relevant accessories. JX items are widely used in Biotech and Pharmaceutical, Animal Husbandry, Research Facilities, Food and Beverage, Metallurgy and more.

What we provide is not only the first-class equipment, but also the first-class service since customers' initial consultation. Stable quality, perfect service, rapid delivery and reasonable price help JX brand win high reputations in the market. We have exported to more than 50 countries such as

US, UK, France, Germany, Australia, Brazil, Uruguay, Ghana, Kenya, Turkey, Cambodia and so on.

Keep moving is a faith of every JX staff. We highly appreciate your frank comments and suggestions. Welcome to be our strategy partner worldwide! JX Cryo is always ready to work together with you for brighter future!



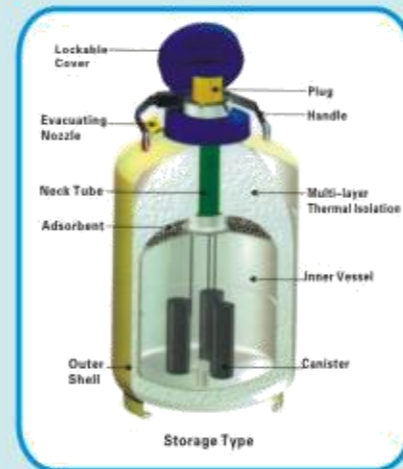
Extended-time storage/Aluminum dewar

Vessels designed for long term storage of biological samples in straws or cryo-vials

Large caliber storage/Aluminum dewar

Vessels designed for life sciences, insemination centers, egg and sperm banks, INF, pharmaceutical labs.....

Aluminum dewar for extended holding time
(\varnothing neck \leq 50 mm)



Aluminum dewar with large caliber for bulk storage
(\varnothing neck \geq 80 mm)



3 lockable wheels at bottom of containers for easy moving (standard design for containers 50litres or above)

Advantages:

- Lowest evaporation loss rate
- Longest life span
- Fastest response
- Excellent production capacity
- Flexible service such as OEM
- Competitive price

Main Characteristics

- ▲ High strength aluminum alloy structure, light weight and resistant;
- ▲ Multi-layer thermal isolation design;
- ▲ Lockable cover protect stored biological samples;
- ▲ Protective jacket to prevent collision;
- ▲ Stainless steel canister with goblets;
- ▲ Low evaporation loss with long holding time;
- ▲ 5-year vacuum warranty.



Canister organization groove system in the upper part of the YDS neck

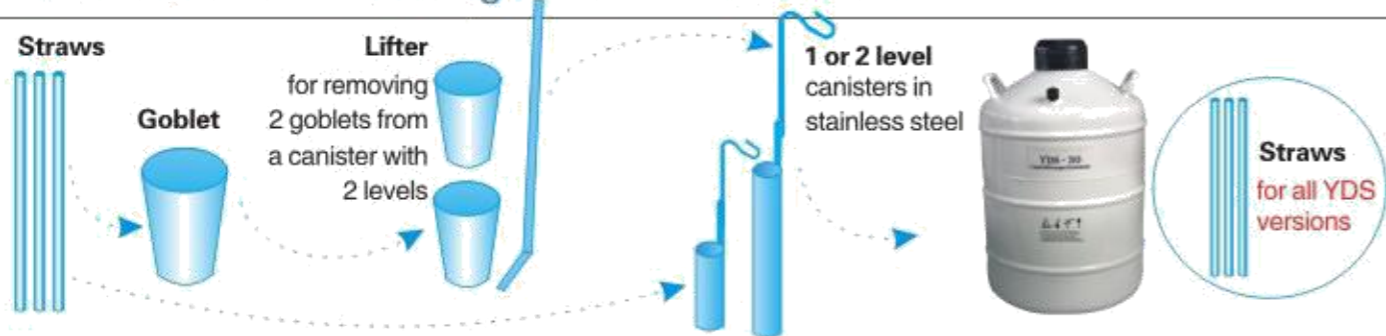


The YDS (except the YDS2-35) can be closed with a security lock on the lid (the security lock is not included)



Easy to identify number and color code on the canisters in the long holding time YDS series

Extended-time storage /Aluminum dewar

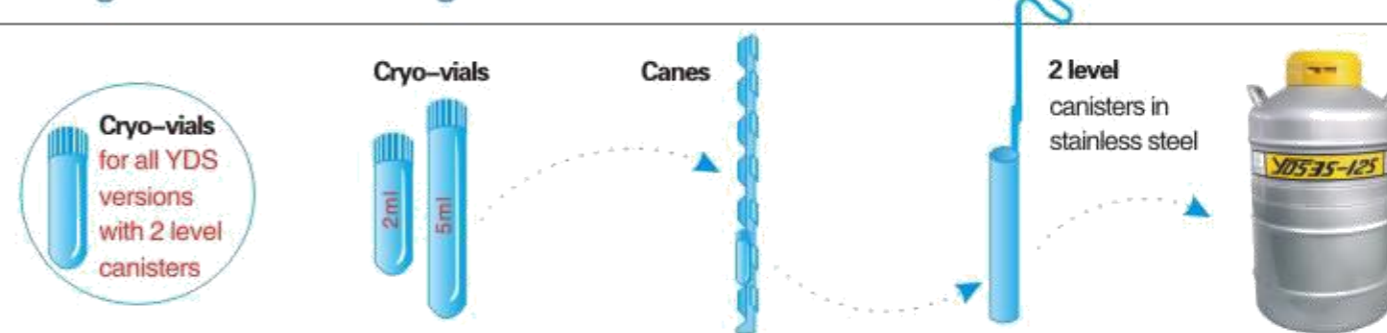


Extended holding time(φ neck ≤ 50mm)

Characteristics	Unit	YDS2-35	YDS-3	YDS-6	YDS-10	YDS-10A	YDS-13
Liquid capacity	L	2	3.15	6	10	10	13
Diameter of neck	mm	35	50	50	50	50	50
Weight empty	Kg	2.8	3.2	4.4	6.0	7.6	7.6
Weight full	Kg	5	5.7	9.2	14.1	15.7	18.1
External diameter	m/m	224	224	285	305	305	305
Total height	m/m	430	425	460	530	605	605
Daily evaporation rate	L/d	0.07	0.10	0.10	0.10	0.09	0.10
Static holding time	D	28	32	61	101	112	131
Number of canisters		3	6	6	6	6	6
Diameter of canister	mm	25	38	38	38	38	38
Height of canister	mm	120	120	120	120	276	276
Number of level of goblets		---	1	1	1	2	2
Max.capacity of 0.25ml straws		330	1788	1788	1788	2832	2832
Max.capacity of 0.5ml straws		150	792	792	792	1284	1284

Characteristics	Unit	YDS-15	YDS-16/9	YDS-20	YDS-30	YDS-35
Liquid capacity	L	15.2	17	21	31.5	35.5
Diameter of neck	mm	50	54	50	50	50
Weight empty	Kg	8.6	8.6	9.0	13.8	17.0
Weight full	Kg	20.9	22.3	26.0	39.2	45.6
External diameter	m/m	355	438	360	435	455
Total height	m/m	600	490	610	680	720
Daily evaporation rate	L/d	0.10	0.10	0.10	0.11	0.11
Static holding time	D	158	168	212	298	326
Number of canisters		6	9	6	6	6
Diameter of canister	mm	38	38	38	38	38
Height of canister	mm	120	127	276	276	276
Number of level of goblets		1	1	2	2	2
Max.capacity of 0.25ml straws		1788	2682	2832	2832	2832
Max.capacity of 0.5ml straws		792	1188	1284	1284	1284

Large caliber storage/Aluminum dewar



Large caliber(φ neck ≥ 80mm)

Characteristics	Unit	YDS10-80	YDS30-80	YDS35-80	YDS30-125	YDS35-125	YDS35-125/10
Liquid capacity	L	10	31.5	35.5	31.5	35.5	35.5
Diameter of neck	mm	80	80	80	125	125	125
Weight empty	Kg	6.8	14.6	16.8	16.8	16.8	17.2
Weight full	Kg	14.9	40.0	45.4	42.3	45.4	45.8
External diameter	mm	305	455	455	455	455	455
Total height	mm	530	670	740	690	740	740
Daily evaporation rate	L/d	0.17	0.18	0.19	0.28	0.29	0.29
Static holding time	D	59	175	189	113	123	121
Number of canisters		6	6	6	6	6	10
Diameter of canister	mm	63	63	63	97	97	76
Height of canister	mm	120	276	276	276	276	276
Number of level of goblets		1	2	2	2	2	2
Max. capacity of 0.25ml straws		5022	8460	8460	19944	19944	20160
Max. capacity of 0.5ml straws		2244	3624	3624	9048	9048	9150

Characteristics	Unit	YDS47-127	YDS60-210	YDS100-210	YDS175-216
Liquid capacity	L	47	63	100	175
Diameter of neck	mm	127	210	210	216
Weight empty	Kg	19.0	27.8	31.2	54.5
Weight full	Kg	56.6	78.7	112	194.5
External diameter	mm	500	560	560	681
Total height	mm	675	900	1100	1040
Daily evaporation rate	L/d	0.45	0.68	0.85	0.95
Static holding time	D	105	93	117	185
Number of racks		6	4	4	6
Number of shelves per rack	mm	6	3	7	10
Dimension of rack		82*84	142*144	142*144	142*144
Total capacity of 2ml cryo-vials		900	1200	2800	6000

Transportation and storage /Aluminum dewar

Non-pressurized vessels designed for the storage and transportation of liquid nitrogen

Application areas include:
Industrial, laboratories, life sciences, medical,.....



This series is designed for sample transportation with special side or bottom reinforcements.

Main Features:

- ▲ High-strength aluminum alloy structure, light weight and resistant;
- ▲ Multi-layer thermal isolation design;
- ▲ Lockable cover to protect stored biological samples;
- ▲ Protective jacket to prevent collision;
- ▲ 3 lockable wheels in the tank for easily moving (suitable for 50L or above type);
- ▲ Stainless steel canister with goblets;
- ▲ Applicable for long distance and frequent transportation;
- ▲ 5-year vacuum warranty.

Transportation and storage

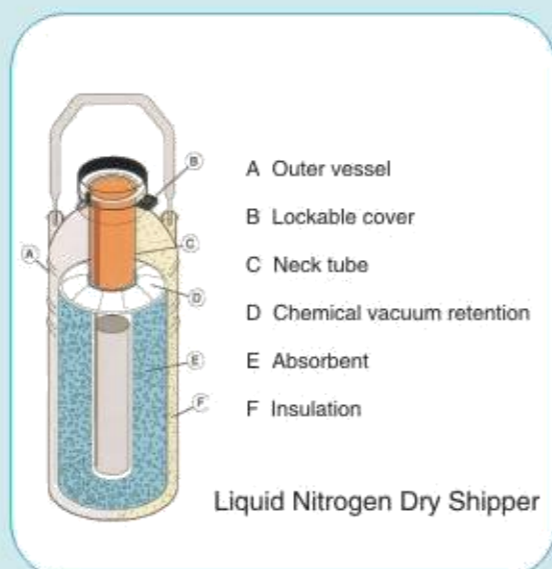
Characteristics	Unit	YDS-13B	YDS-20B	YDS-30B	YDS-35B	YDS-50B	YDS30B-80
Liquid capacity	L	13	20	31.5	35.5	50	31.5
Diameter of neck	mm	50	50	50	50	50	80
Weight empty	Kg	7.8	10.9	14.2	17.4	21.5	15.0
Weight full	Kg	18.3	26.9	39.6	46.1	61.9	40.5
External diameter	mm	305	394	455	455	500	455
Total height	mm	605	656	670	720	850	670
Daily evaporation rate	L/d	0.14	0.16	0.17	0.17	0.20	0.24
Static holding time	D	93	125	185	209	255	132
Number of canisters		6	6	6	6	6	6
Diameter of canister	mm	38	38	38	38	38	63
Height of canister	mm	276	276	276	276	276	276
Number of level of goblets		2	2	2	2	2	2
Max. capacity of 0.25ml straws		2832	2832	2832	2832	2832	8460
Max. capacity of 0.5ml straws		1284	1284	1284	1284	1284	3624

Characteristics	Unit	YDS50B-80	YDS35B-125	YDS50B-125	YDS50B-125/10	YDS100B-125
Liquid capacity	L	50	35.5	50	50	100
Diameter of neck	mm	80	125	125	125	125
Weight empty	Kg	19.2	17.2	21.6	21.8	29.8
Weight full	Kg	61.9	45.9	62.0	62.2	110.6
External diameter	mm	500	455	500	500	560
Total height	mm	850	740	850	850	1110
Daily evaporation rate	L/d	0.26	0.35	0.37	0.38	0.37
Static holding time	D	190	102	135	131	270
Number of canisters		6	6	6	10	6
Diameter of canister	mm	63	97	97	76	97
Height of canister	mm	276	276	276	276	276
Number of level of goblets		2	2	2	2	2
Max. capacity of 0.25ml straws		8460	19944	19944	20160	19944
Max. capacity of 0.5ml straws		3624	9048	9048	9150	9048

Dry Shipper /Aluminum vapor shipper



A perfect solution of transportation for biological and pharmaceutical samples by air.



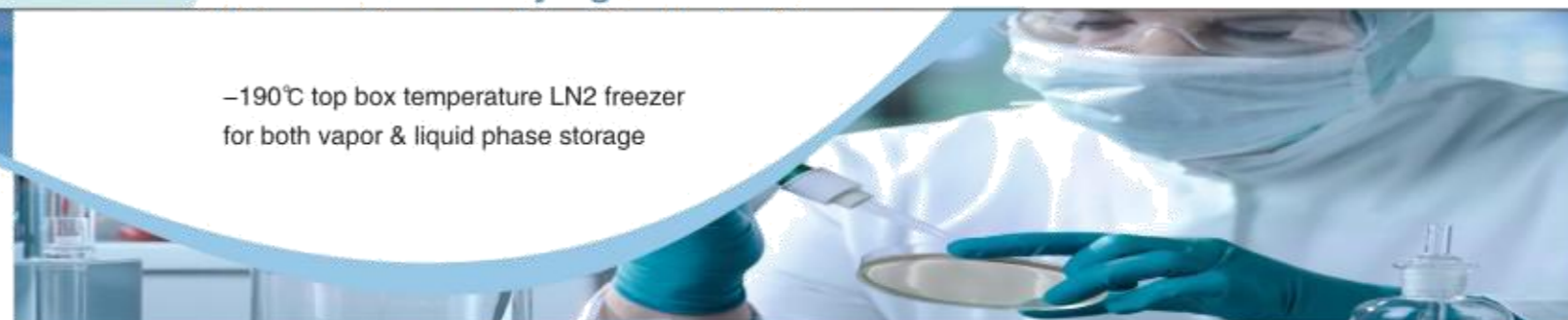
YDH Dry shipper

Characteristics	Unit	YDS-3H	YDH-3	YDS-8H-80	YDH13-80	YDS-10H-125	YDS-25H-216
Liquid capacity	L	3	3.5	8	13	10	25
Absorbed capacity	L	1.35	2	3.5	5.9	3.3	9.5
Diameter of neck	mm	50	50	80	80	125	216
Weight empty	Kg	3.5	5.2	6.2	8.5	6.9	13
External diameter	mm	224	224	300	304	300	394
Total height	mm	428	505	581	565	546	705
Daily evaporation rate	L/d	0.15	0.14	0.21	0.23	0.37	0.89
Static holding time	D	9	14	18	25	9	10
Number of canisters		1	1	1	1	1	Rack
Diameter of canister	mm	38	38	70	70	97	-
Height of canister	mm	120	276	120	276	276	-
Number of level of goblets		1	2	1	2	2	-
Max.capacity of 0.25ml straws		298	472	1060	1680	3324	-
Max.capacity of 0.5ml straws		132	214	469	761	1508	-

Liquid nitrogen absorbent is designed in the vessel of this series of containers, which absorbs and stores liquid nitrogen inside. Even if the container is turned over during transportation, liquid nitrogen never spills out. With lower static evaporation loss, these containers are especially suitable for air transportation.

Stainless Steel Cryogenic Freezer

-190°C top box temperature LN2 freezer for both vapor & liquid phase storage



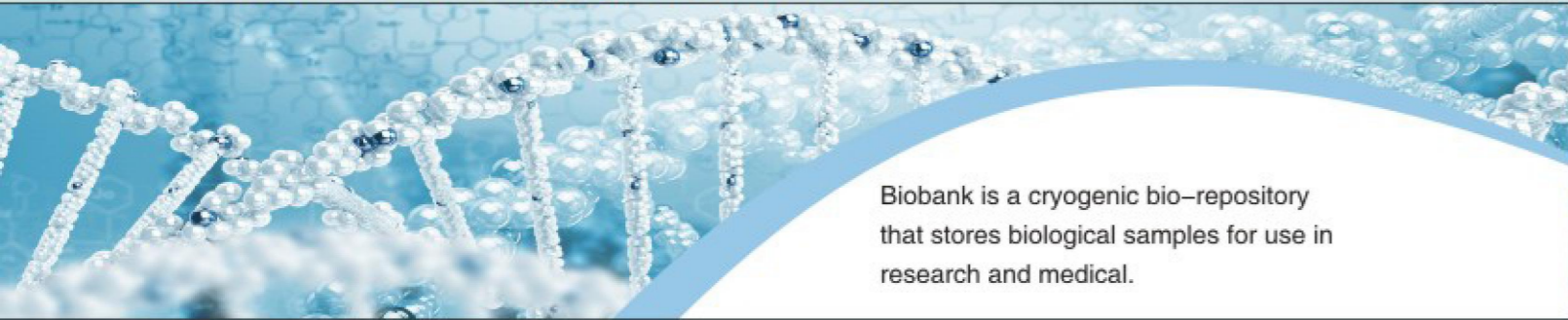
YDD series provide the user with a fully automatic, safe and reliable cryogenic liquid nitrogen storage system. All types of tank is made of high quality stainless steel, automatic caster wheel, brake device, convenient open hinged lid, and large diameter openings for sample storage. The sample can be stored in liquid (-196°C) and gas (-190°C). Microcomputer touch control system provides greater convenience and security. In order to achieve the most economical operation, we design the biggest sample storage capacity under the condition of the minimum consumption of liquid nitrogen.

Main characteristics:

- Made of full austenitic stainless steel with polished surface;
- Offset design of mouth to increase capacity and reduce LN2 evaporation;
- Storage in vapor;
- Partition storage in rotating tray; Easy to access samples under flexible rotation;
- Color touch LCD control panel; Users can modify the default parameters;
- Liquid nitrogen level using differential pressure real-time display; high/low level automatic control fluid infusion; super high/ low level alarm; super temperature alarm. Data can be transferred to computer and sent to mobile phone by SMS;
- Battery back-up to ensure uninterrupted power supply;
- Hot gas by-pass & Manual de-fog button;
- Record historical parameters, state of operations and alarms in two ways: Event log & Graph curve;
- Lowest liquid nitrogen consumption;
- 190°C top box temperature;
- External handle to control internal tray: safety & reliable;
- Full platform design of the top: Convenient to operate and lay up racks;
- Equipped with high-strength and wearable casters;
- Lockable cover to protect samples in safe;
- 5 years vacuum warranty.



Stainless Steel Cryogenic Freezer



Biobank is a cryogenic bio-repository that stores biological samples for use in research and medical.

High efficiency Cryopreservation of samples in vials, straws and blood bags in vapor or liquid phase.



YDD Freezer

Characteristics	YDD-350-VS/PM	YDD-450-VS/PM	YDD-550-VS/PM	YDD-750-VS/PM
Unit dimensions				
Effective Capacity(L)	350	460	587	783
Capacity Under Platform(L)	55	55	80	80
Neck Opening(mm)	326	326	445	445
Usable Internal height(mm)	600	828	600	828
Outer Diameter(mm)	875	875	1104	1105
Platform Diameter(mm)	960	960	1050	1260
Overall Height(mm)	1326	1558	1321	1591
Operation Height(mm)	1263	1212	1266	1216
Weight Empty(kg)	219	277	328	372
Maximum storage capacity				
Capacity of 2 ml Vials	13000	18200	26000	36400
Quantity of Racks 100 cell boxes	12	12	24	24
Quantity of Racks 25 cell boxes	4	4	8	8
Number of shelves per Rack	10	14	10	14
Capacity of 50ml bags	792	1056	1416	1888
Bags per frame	6	8	6	8

YDD freezers provide maximum storage density as well as the longest hold time and highest sample security.

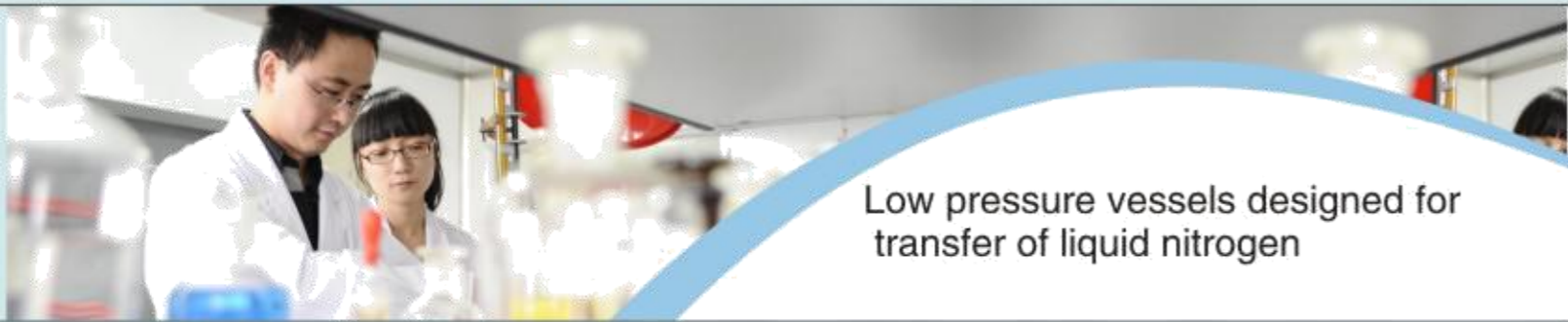
The optional smart monitor and control system help you to complete easy handling.

Characteristics	YDD-850-VS/PM	YDD-1000-VS/PM	YDD-1300-VS/P	YDD-1800-VS/PM
Unit dimensions				
Effective Capacity(L)	890	1014	1340	1880
Capacity Under Platform(L)	135	135	265	320
Neck Opening(mm)	465	465	635	635
Usable Internal height(mm)	773	900	620	900
Outer Diameter(mm)	1190	1190	1565	1565
Platform Diameter(mm)	1260	1360	1360	1400
Overall Height(mm)	1559	1704	1398	1883
Operation Height(mm)	980	950	997	1097
Weight Empty(kg)	441	495	851	985
Maximum storage capacity				
Capacity of 2 ml Vials	42900	49500	58500	87750
Quantity of Racks 100 cell boxes	32	32	54	54
Quantity of Racks 25 cell boxes	4	4	18	18
Number of shelves per Rack	13	15	10	15
Capacity of 50ml bags	2072	2664	2916	4374
Bags per frame	7	9	6	9



Rack/Frame can be provided as per customer's demand.

Stainless Steel Supply Cylinder



Perfect units for laboratory and hospital applications



Low pressure vessels designed for transfer of liquid nitrogen



Product technical data

Model	Capacity	Available capacity	External dimension	Empty weight	Working pressure	Daily evaporation rate	Transfusion volume
YDZ-15	16.5	15	377 × 830	24	< 0.1	≤ 2.6	≥ 2
YDZ-30	31.5	30	455 × 950	35	< 0.1	≤ 2.5	≥ 2
YDZ-50	55	50	455 × 1180	45	< 0.1	≤ 2.2	≥ 4
YDZ-75	83	75	506 × 1180	56	< 0.1	≤ 2.8	≥ 6
YDZ-100	110	100	606 × 1300	78	< 0.1	≤ 1.4	≥ 6
YDZ-150	165	150	706 × 1340	98	< 0.1	≤ 1.3	≥ 8
YDZ-175	193	175	706 × 1370	100	< 0.1	≤ 1.2	≥ 8
YDZ-200	220	200	706 × 1450	112	< 0.1	≤ 1.1	≥ 8
YDZ-230	245	230	706 × 1480	122	< 0.1	≤ 1.1	≥ 8
YDZ-250	275	250	756 × 1470	128	< 0.1	≤ 1.1	≥ 10
YDZ-300	330	300	806 × 1500	150	< 0.1	≤ 1.1	≥ 10
YDZ-400	440	400	908 × 1540	240	< 0.1	≤ 1.1	≥ 12
YDZ-500	550	500	1008 × 1600	280	< 0.1	≤ 1.0	≥ 12
YDZ-600	660	600	1058 × 1620	385	< 0.1	≤ 1.0	≥ 15
YDZ-800	880	800	1160 × 1720	520	< 0.1	≤ 0.9	≥ 15
YDZ-1000	1050	1000	1210 × 1970	650	< 0.1	≤ 0.8	≥ 15
YDZ-2000	2100	2000	1512 × 2470	1125	< 0.1	≤ 0.6	≥ 20

Product Main Characteristics

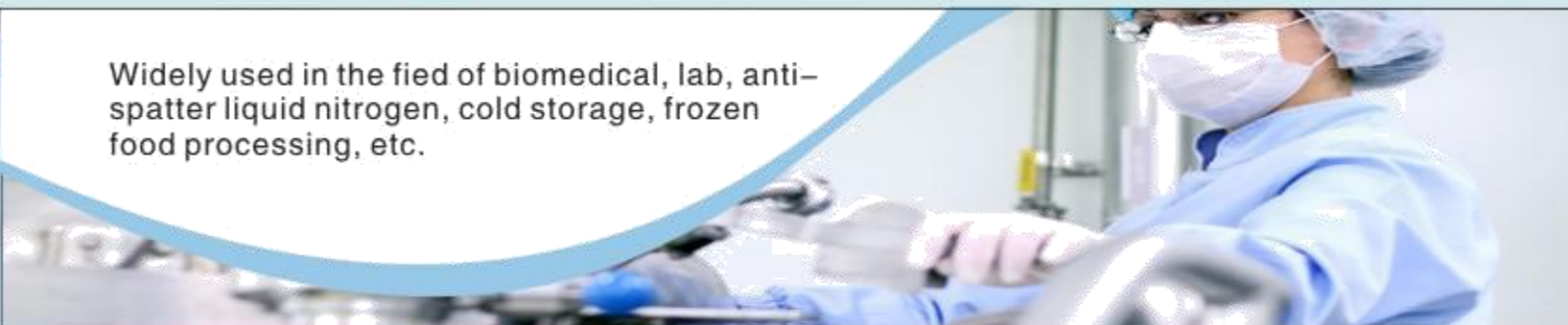
- ▲ YDZ series are equipped with double safety auto-control valves and double protective measure, which are safer to use.
- ▲ This kind of products has the feature of increasing pressure and draining the liquid continuously, which helps to effectively fill the liquid.
- ▲ The movable wheels with high carrying capacity make it easily moves.
- ▲ The special ultra-low temperature cut-off valves are easier to operate. They are durable and elegant.



Safety clothes(Cryogenic protective clothes)



Equipment package comprise: cryogenic protective hood, overalls, gloves, apron, boots.



Widely used in the field of biomedical, lab, anti-spatter liquid nitrogen, cold storage, frozen food processing, etc.

Cryogenic protective clothes are suitable for workers to effectively resist the extreme cold temperature range from $-160\text{ }^{\circ}\text{C}$ to $-250\text{ }^{\circ}\text{C}$, widely used in the working condition of low-temperature gas, cold storage, ice, cold room. They are also suitable for biomedical, laboratory, industrial, aerospace, frozen food processing and any other extreme cold places.



Cryogenic protective gloves

Model: JX-DW-001

Size: 38cm. 48cm. 58cm. 68cm



Overalls without backpack

Model: JX-DW-002

Overalls with backpack contains SCBA

Model: JX-DW-003

Size: S (160-165) M (165-170) L (170-175)

XL (175-180) XXL (180-185) XXXL (185-1)



Main Characteristics:

1. Advanced imported composite materials;
2. Breathable waterproof, light weight and soft comfortable;
3. Multi-layer thermal insulation design;
4. Defensive one-piece design, equipped with anti-fog and anti-shock windows;
5. CE certificate approved.

Cryogenic protective hood

Model: JX-DW-004



Cryogenic protective boots

Model: JX-DW-006

Size: 37-45 yards



Cryogenic protective apron

Model: JX-DW-005

Specifications: 36 inch

Accessories



Liquid nitrogen sprayer



Rack with vial-boxes



Blood bag frame



Canister



Level rod



Cork



Lockable cover



Roller base



Transfer hose



Liquid nitrogen extraction pump



Welcome to be our strategy partner worldwide
To be a leading solution provider for LN2 cryopreservation