



SICHUAN HAISHENGJIE CRYOGENIC TECHNOLOGY CO.,LTD.

TEL: 0086-28-82724106 / 82724107

FAX : 0086-28-82724077

WEB: www.sjcryos.com

ADDRESS: No. 1019, Kesheng Road East, Strait Science and Technology Park,
Wenjiang District, Chengdu, Sichuan, China

EMAIL : sjcryo@163.com



Wechat Public Number
Two-Dimensional Code



Company Website
Two-Dimensional Code

EXPLORE THE FANTASTIC CRYOGENIC WORLD



SICHUAN HAISHENGJIE CRYOGENIC TECHNOLOGY CO.,LTD.

COMPANY OVERVIEW



Sichuan Haishengjie Cryogenic Technology Co., Ltd., (a holding subsidiary of Qingdao Haier Biomedical Co., Ltd.) specializes in the research, development, production and sales of liquid nitrogen related equipment. After several years of rapid development, the company has become a high-tech and double-soft certification enterprise. At present, "SJ" brand is already the leading brand of liquid nitrogen biological container in China.

Our products are mainly containing three areas: biomedical field, food field and industrial field. We have the most complete models in biomedical field, including three categories: aluminum liquid nitrogen biological container, stainless steel vapor liquid nitrogen tank and liquid nitrogen filling tank, totally more than 100 models. Product technology in the field of food and industry are at the forefront in China, and have patented inventions.

We strictly follow ISO 9001 quality management system requirements of quality control. We have 6 invention patents, 10 software patents, more than 20 utility model patents and appearance patents. Products have the EU CE certification, and have been exported to more than 50 countries around the world.

Our mission is providing our customers with safer, more efficient and smarter products. Our responsibility is escorting customers, realizing value for our stuff, and contributing to the society.

PARTNERS



OUR QUALIFICATIONS



CE cert.



Software copyright cert.



National cryogenic center test cert.



Measurement identification cert.



ISO 9001 cert.



OHSAS 18001 cert.



Safe manufacturing standardization



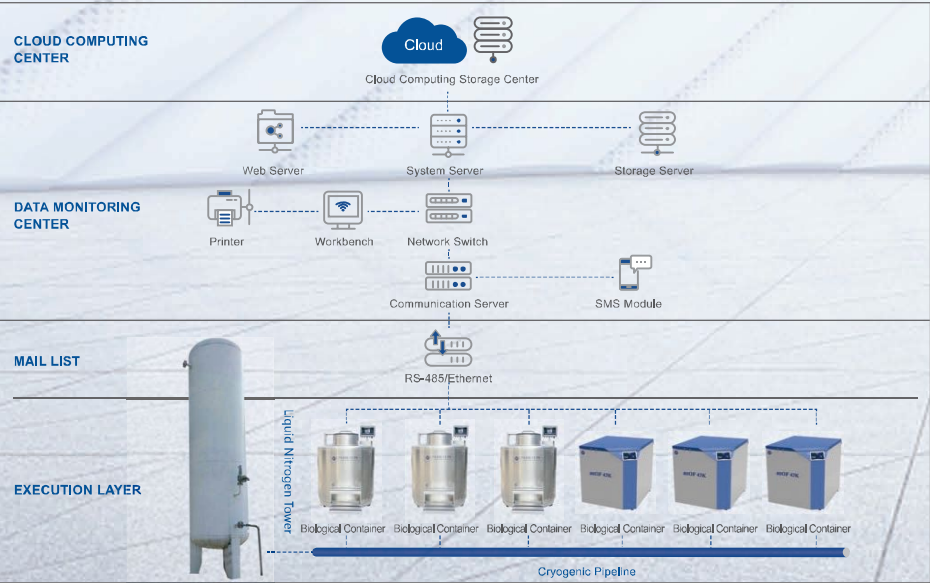
Occupational health and safety management system

PATENTS AND CERTIFICATES



YOUR SAMPLE BEING SAFE IS OUR UNSWERVING PURSUIT

For others, maybe these are just biological samples, but for us, these are the brainchilds of a scientist, an important research in a lab, a company's future ... We're always working on safety and integrity of samples; every solution offers the best protection for your precious samples.



Sichuan Haishengjie Cryogenic Technology Co., Ltd. provides you with a full range of liquid nitrogen freezing solutions, excellent insulation properties, low operating costs and great the control function make sure you no need to worry about the precious biological samples.



Longest freezing time — Unlike a mechanical refrigeration system, a liquid nitrogen storage system can safely hold samples for extended periods of time during a power outage. With the development and application of cryogenic storage tanks, the demand for back-up and re-storage of samples has been greatly reduced.



The lowest energy consumption — liquid nitrogen tank depends on liquid nitrogen to maintain low temperature, the energy consumption is very low, far less than a light's power consumption, maximum saving energy.



Pollution-free, environmentally friendly — Liquid nitrogen is derived from natural-gas nitrogen and does not use any refrigerant and no greenhouse gas emissions.





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CRYOBIOBANK SERIES



PRODUCT OVERVIEW

Cryobiobank series provide users with automatic, secure and reliable cryogenic liquid nitrogen freezing systems. Tanks are made of high quality stainless steel, equipped with casters and brakes, and wide neck opening for easy to pick and place specimen. Specimen could be stored in liquid or vapor, and control system provides high convenience and security. To achieve the most economical operation, our design ensures the lowest consumption of liquid nitrogen and the maximum storage capacity of the specimen. The whole tank uses advanced evacuation technology, adiabatic technology and high vacuum retention technology to ensure the safe storage of specimen, good uniform temperature and the lowest liquid nitrogen consumption. When specimen in vapor storage, the entire storage area temperature differences do not exceed 10 °C, and the top of the frozen rack lowest temperature can reach -190°C. Biobank Series provides you with the best storage experience: fast specimen access, reliable protection, convenient liquid nitrogen autofill and flexible storage capacity.

PRODUCT FEATURES

- 1 Compatible with vapor and liquid storage modes;
- 2 Various capacity optional to meet your storage requirements;
- 3 More specimen capacity in a limited space to reduce the storage costs;
- 4 Excellent temperature uniformity and stability;
- 5 Excellent temperature stability after opening lid;
- 6 Advanced temperature, level monitoring and alarm system, remote network monitoring;
- 7 Automatic filling liquid nitrogen system, safe and efficient;
- 8 Controlling system can permanently store operating data;
- 9 One button to demist, easy to search, pick and place specimen;
- 10 User-friendly design, comfortable operation;
- 11 Lockable lid, fully guarantee the safety of the specimen;
- 12 Equipped with folding steps and workbench;
- 13 CE certified;
- 14 Products conform to GB/T 14174-2012.



PRODUCT ADVANTAGES



Big storage capacity

Compared with similar products, our products need less space and could store more samples; save space and also reduce the cost;



Excellent temperature uniformity

Vacuum insulated stainless steel structure, high vacuum coverage to ensure excellent insulation properties;



Stable temperature while lid is open

Innovative lid and excellent small neck openings design can greatly reduce the liquid nitrogen evaporation rate. Even keep the lid open for a long time, the temperature inside the tank can still be very stable; temperature could be not higher than -150°C within 48 hours;



Advanced temperature monitoring system

Microprocessor-based control system and the vertical double platinum resistance temperature probe can display real time temperature, accuracy of $\pm 1^\circ\text{C}$. The user can set their own alarm temperature value, with alarm mute option;



Automatic filling liquid nitrogen and liquid level monitoring system

Based on the differential pressure sensor, level monitoring system could display real-time liquid level, to ensure that the liquid nitrogen automatic filling process safe and reliable. 10-inch LCD touch screen display: temperature of the top, bottom temperature, liquid level, and operating status etc.



Hot gas bypass

The hot gas bypass can remove nitrogen which is at indoor temperature before the liquid nitrogen is filled, to ensure that only liquid nitrogen is filled into the tank and avoid temperature fluctuations in the liquid nitrogen tank during the filling process. It would make sure the safety of the sample and also reduce the additional liquid nitrogen consumption.



Humanization design

Stainless steel auxiliary table, can be used for temporary placement for the racks to speed up the sample picking and placing; folding steps reduce the height of the operation platform; spare opening on the internal tray for easy to find inadvertently dropped samples.

BIOLOGICAL SAMPLE BANK SOLUTION

SCHEME EXPLANATION

Domestic high-standard, ultra-safe, information-based and ecological biological sample bank, from transportation, storage, processing, transformation and other aspects to give samples a comprehensive management plan, to ensure the integrity of samples and maximize the value.

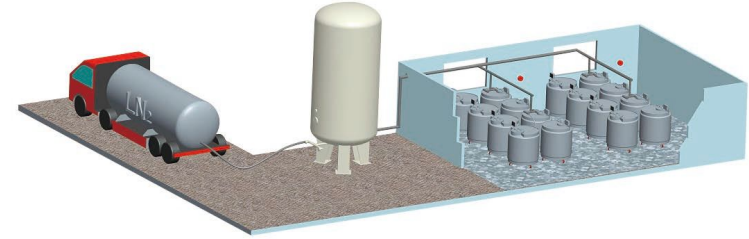
PROGRAM ADVANTAGE

SCIENCE: New cloud platform architecture, cloud services, not only to maintain the integrity of liquid nitrogen tank operation data, but also to rationally allocate authority to achieve independence.

STANDARD: It is designed and manufactured strictly according to the national standard (self-pressurization, national standard for large cans), compatible with and meeting the requirements of ISO 9001 quality management system and EU CE certification.

SAFETY: Advanced sample bank intelligent monitoring system, oxygen concentration monitoring and early warning system, all-round protection of sample safety and personnel, laboratory safety.

SOLUTION OF MILLION BIOLOGICAL SAMPLE BANK



(Suitable for medium and large sample banks)

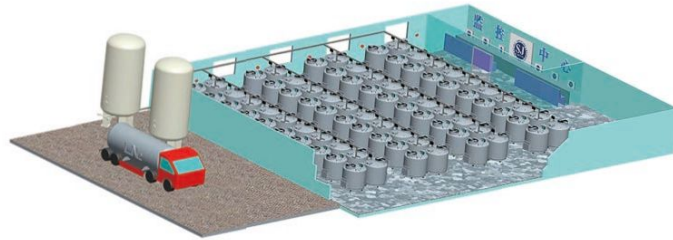
PRODUCTS INCLUDE

- ① One liquid nitrogen tower can also choose small liquid nitrogen tower with pleasant cooling;
- ② More than 10 800 liter gas phase tanks;
- ③ The state of liquid nitrogen tank is displayed by computer;
- ④ Indoor oxygen concentration detection, linkage exhaust system;
- ⑤ It can be equipped with camera monitoring system and remote monitoring;
- ⑥ Configuration of online UPS power supply, automatic switching of power off, to ensure that data is not lost.

PROGRAM ADVANTAGE

The monitoring center can centrally monitor the data of each liquid nitrogen tank; the centralized replenishment of liquid nitrogen tower is faster, and there is no need for separate replenishment tank, so the storage capacity is larger.

SOLUTION OF ONE HUNDRED THOUSAND BIOLOGICAL SAMPLE BANK



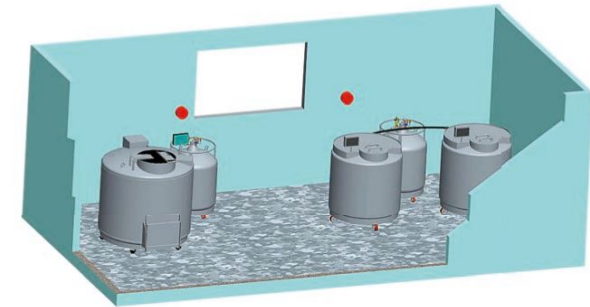
(Suitable for large blood bank and sample bank)

PRODUCTS INCLUDE

- ① Two liquid nitrogen towers are connected in parallel to supply liquid nitrogen;
- ② More than 100 1800 liters gas phase tanks;
- ③ The monitoring center has a large screen to display the status of each liquid nitrogen tank;
- ④ Indoor oxygen concentration detection, linkage exhaust system;
- ⑤ Camera monitoring system, remote monitoring;
- ⑥ Configuration of backup power supply, automatic switching of power off, to ensure that data is not lost.

PROGRAM ADVANTAGE

Establishment of monitoring center can centralize monitoring data of each liquid nitrogen tank; centralized replenishment of liquid nitrogen tower is faster and does not require a separate replenishment tank; storage capacity is huge and maintenance cost of single sample is lower.



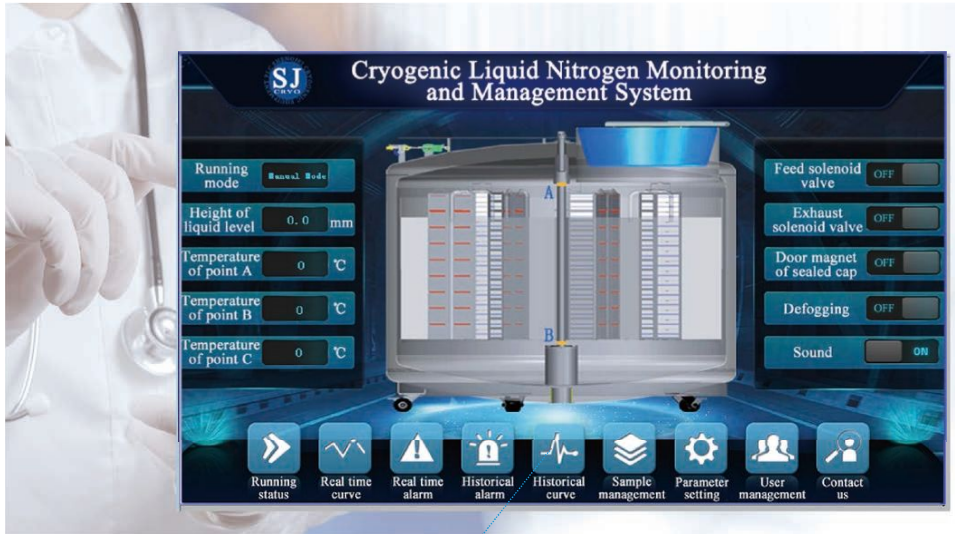
(Suitable for the initial establishment of databases, small sample databases)

PRODUCTS INCLUDE

- ① Self-pressurizing as a replenishment tank, one-to-one or one-to-two, self-pressurizing products do not need pressure vessels to use for record, safe and reliable, low liquid nitrogen loss;
- ② It is equipped with hand-held low oxygen concentration alarm device.
- ③ Single-machine operation or mobile remote monitoring;
- ④ The backup power supply provided by the instrument lasts about 2 days.

PROGRAM ADVANTAGE

Low investment, small site requirements, more flexible layout of liquid nitrogen tanks.



ZJY-700N INTELLIGENT CONTROL SYSTEM

- 1 Automatic liquid nitrogen filling;
- 2 Special structure to prevent liquid nitrogen splashing;
- 3 Hot air bypass function;
- 4 Platinum resistance temperature sensor;
- 5 Differential pressure level sensor;
- 6 Automatic recording level, temperature and other data;
- 7 Local monitoring center;
- 8 Cloud monitoring and management center;
- 9 A variety of alarm self-diagnosis;
- 10 SMS remote alarm;
- 11 Action permission settings;
- 12 Run / alarm parameters settings;
- 13 Sound and light abnormal alarm to remind;
- 14 Backup power and UPS power supply.



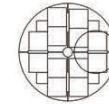
RACKS LAYOUT

Vertical racks

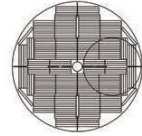
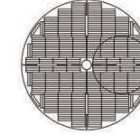
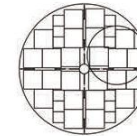
25ml
Blood bag racks

50ml
Blood bag racks

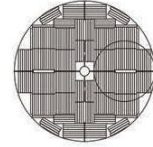
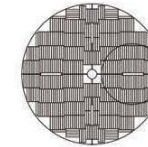
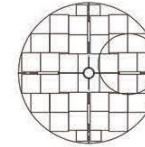
YDD-350
YDD-450



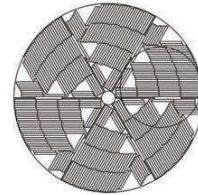
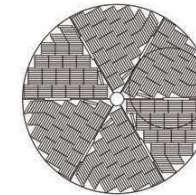
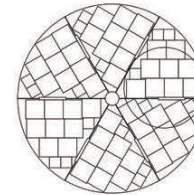
YDD-550
YDD-750



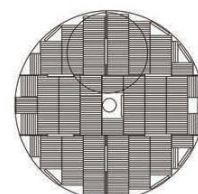
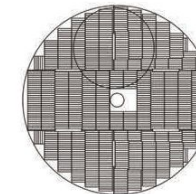
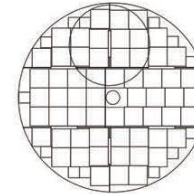
YDD-850
YDD-1000



YDD-1300
YDD-1600
YDD-1800



YDD-1300
YDD-1600
YDD-1800



SPECIFICATIONS

MODEL	YDD-350-VS/PM	YDD-450-VS/PM	YDD-550-VS/PM	YDD-750-VS/PM	YDD-850-VS/PM
LN2 Capacity Under Platform Vapor Storage (L)	55	55	80	80	135
LN2 Capacity (L)	350	460	587	783	890
Neck Opening (mm)	326	326	445	445	465
Usable Internal Height (mm)	600	828	600	828	773
Outer Diameter (mm)	875	875	1104	1104	1190
Overall Height (mm) Containing Instrument Height	1326	1558	1321	1591	1559
Weight Empty (kg)	219	277	328	372	441
Operation Height (mm)	1263	1212	1266	1216	980
Weight Liquid Full (kg)	502	649	802	1005	1160
Door Width Requirement (2mm)	895	895	1124	1124	1210

Maximum Storage Capacity of 2ml Internal Rotary Freeze Storage Tube

1,2,1,8 & 2 ml Vials (Internally Threaded) (ea)	13000	18200	27000	37800	42900
Number of Racks with 25 (5×5) Cell Boxes (ea)	4	4	12	12	4
Number of Racks with 100 (10×10) Cell Boxes (ea)	12	12	24	24	32
Number of 25 (5×5) Cell Boxes (ea)	40	56	120	168	52
Number of 100 (10×10) Cell Boxes (ea)	120	168	240	336	416
Number of Stages per Rack (ea)	10	14	10	14	13

Maximum Straw Capacity

High Security Straw Capacity (0.5 ml) (ea)	111312	131220	203040	253800	304920
High Security Straw Capacity (0.25 ml) (ea)	254592	301120	468544	585680	699360
Number of Canisters (76 mm) (ea)	52	52	112	112	120
Number of Canisters (63 mm) (ea)	8	8	0	0	16
Number of Canisters (38 mm) (ea)	28	12	24	24	40
Number of Levels per Canister (ea)	4	5	4	5	5
Level Height (mm)	135	135	135	135	135

Maximum Blood Bag Capacity

Blood Bag Type	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
25ml (791 OS/U)	1296	6	216	1728	8	216	2376	6	396	3168	8	396	3360	7	480
50ml (4R9951)	792	6	132	1056	8	132	1416	6	236	1888	8	236	2072	7	296
200ml (DF-200)	168	3	56	280	5	56	336	3	112	560	5	112	544	4	136
250ml (4R9953)	300	3	100	500	5	100	552	3	184	920	5	184	944	4	236
500ml (4R9955)	192	3	64	320	5	64	408	3	136	680	5	136	640	4	160
700ml (DF-700)	96	3	32	128	4	32	204	3	68	272	4	68	320	4	80

MODEL	YDD-1000-VS/PM	YDD-1300-VS/PT	YDD-1600-VS/PT	YDD-1800-VS/PM	YDD-1800-VS/PT
LN2 Capacity Under Platform Vapor Storage (L)	135	265	300	320	320
LN2 Capacity (L)	1014	1340	1660	1880	1880
Neck Opening (mm)	465	635	635	635	635
Usable Internal Height (mm)	900	620	791	900	900
Outer Diameter (mm)	1190	1565	1565	1565	1565
Overall Height (mm) Containing Instrument Height	1827	1398	1589	1883	1883
Weight Empty (kg)	495	851	914	985	985
Operation Height (mm)	950	997	967	1097	1097
Weight Liquid Full (kg)	1314	1934	2255	2504	2504
Door Width Requirement (2mm)	1210	1585	1585	1585	1585

Maximum Storage Capacity of 2ml Internal Rotary Freeze Storage Tube

1,2,1,8 & 2 ml Vials (Internally Threaded) (ea)	49500	63250	82225	87750	94875
Number of Racks with 25 (5×5) Cell Boxes (ea)	4	13	13	18	13
Number of Racks with 100 (10×10) Cell Boxes (ea)	32	60	60	54	60
Number of 25 (5×5) Cell Boxes (ea)	60	130	169	270	195
Number of 100 (10×10) Cell Boxes (ea)	480	600	780	810	900
Number of Stages per Rack (ea)	15	10	13	15	15

Maximum Straw Capacity

High Security Straw Capacity (0.5 ml) (ea)	365904	447444	559305	720252	671166
High Security Straw Capacity (0.25 ml) (ea)	839232	1029256	1286570	1651500	1543884
Number of Canisters (76 mm) (ea)	120	232	232	234	232
Number of Canisters (63 mm) (ea)	16	24	24	42	24
Number of Canisters (38 mm) (ea)	40	39	39	54	39
Number of Levels per Canister (ea)	6	4	5	6	6
Level Height (mm)	135	135	135	135	135

Maximum Blood Bag Capacity

Blood Bag Type	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
25ml (791 OS/U)	4320	9	480	5172	6	862	6034	7	862	7074	9	786	7758	9	862
50ml (4R9951)	2664	9	296	3270	6	545	3815	7	545	4374	9	486	4905	9	545
200ml (DF-200)	680	5	136	774	3	258	1032	4	258	1110	5	222	1290	5	258
250ml (4R9953)	1180	5	236	1257	3	419	1676	4	419	1950	5	390	2095	5	419
500ml (4R9955)	800	5	160	912	3	304	1216	4	304	1380	5	276	1520	5	304
700ml (DF-700)	400	5	80	465	3	155	620	4	155	660	5	132	775	5	155

LIQUID NITROGEN BIOREFRIGERATOR



PRODUCT OVERVIEW

The liquid nitrogen biological refrigerator has novel appearance and strong sense of medical equipment, and is suitable for various sample banks, hospitals and laboratories. Dual lock design can effectively protect the sample safety; intelligent management can connect to cloud server, touch screen operation makes the use easier, and has its own power conversion device, equipped with liquid nitrogen filter, reduce impurities and improve the life of the whole machine.



PRODUCT ADVANTAGES

- 1 The square shell shows the magnificence and beauty, and the inner cylinder design is conducive to high vacuum multi-layer insulation;
- 2 The top of the product is opened to make sample placement more convenient;
- 3 The cover plate design saves the operation effort and the double lock and double control design makes the sample safer to store;
- 4 The control instrument uses touch screen and has fingerprint unlocking function, which makes the product more beautiful;
- 5 It has the function of anti-leakage protection to make the use safer.



SPECIFICATIONS

MODEL	BIOF 43K	
Working Voltage	DC24V	
Using Power Supply	AC220V/AC110V	
Outline Size	1340x1100x1200	
Applicable to Frozen Parts	Blood bag rack, square bucket, round bucket	
Control Mode	Automatic intelligent control	
Design Temperature for Freezing Storage	-196°C ~ Normal atmospheric temperature	
Design Pressure	Open atmospheric pressure	
Opening Size	Φ 1000mm	
Geometric Volume	550L	
Design Weight	400KG	
Insulation Form	High Vacuum Multilayer Insulation	
	Gas phase	Liquid phase
1.2, 1.8 & 2 ml Vials (Internally Threaded) (ea)	33550	42900
Number of Racks with 25 (5×5) Cell Boxes (ea)	10	8
Number of Racks with 100 (10×10) Cell Boxes (ea)	28	31
Number of 25 (5×5) Cell Boxes (ea)	110	104
Number of 100 (10×10) Cell Boxes (ea)	308	403
Number of Stages per Rack (ea)	11	13

YDC-3000 SAMPLE FUMIGATION
OPERATING VEHICLE



PRODUCT OVERVIEW

YDC-3000 sample fumigating vehicle main material uses high quality stainless steel, adopts high vacuum multilayer insulation, and the lid is made of aluminum alloy and insulation foam. It is portable and effective in controlling the evaporation rate of liquid nitrogen, and ensures the effectiveness and durability of the turnaround work in low temperature. It is mainly suitable for sample operation and transportation in hospitals, sample libraries and laboratories.

PRODUCT FEATURES

- ① Under the closed condition, the top temperature of the freezing box is below - 180℃ for more than 24 hours;
- ② Under the closed condition, the top temperature of the freezing box is below - 170℃ for more than 36 hours;
- ③ Temperature recorder;
- ④ The intake hose adopts CGA295 joint, which is easy to disassemble and assemble;
- ⑤ It is easy to move and park with the brake of the trolley casters.



SPECIFICATIONS

MODEL		YDC-3000
Outward Size (Long x Wide x High mm)		1465 × 570 × 985
In-box Space (Length x Width x Height mm)		1000 × 285 × 180
Use Space in the Box (Length x Width x Height mm)		1000 × 110 × 180
Shelf Space (Length x Width x Height mm)		1200 × 450 × 250
Maximum Storage Number	5 x 5 Freezing Boxes	65
	10 x 10 Freeze Storage Boxes	30
	50ml Blood Bags (One)	105
	200 ml Blood Bag Boxes	50
	2 ml Cryopreservation Tube	3000

FREEZE FRAME LIFTING DEVICE

Freeze frame lifting device is designed to solve the difficulty of extracting freezing shelf for laboratory personnel, and is used with gas phase liquid nitrogen tank. The products are divided into manual fixed extractor and mobile extractor according to their functions.

MANUAL FIXED AUXILIARY LIFTING DEVICE

FUNCTION INTRODUCTION

- ① Use remote control to ascend and descend;
- ② Laser positioning is used to realize the precise positioning of the extracting frame;
- ③ No welding installation can realize the non-destructive installation of liquid nitrogen tank;
- ④ With larger working area, 340 degree free rotation can be achieved.



SPECIFICATIONS

MODEL	TQQ-SG 1300	Deadweight	100kg
Maximum Lifting Height	1000mm	Maximum Lifting Weight	20kg
Sliding Distance of Cantilever Suspension Rope	600mm	Lifting Speed	5m/min
Cantilever Rotation Degree of Freedom	-170° ~ +170°	Power	1550w
Fuselage Size (Length x Width x Height)	1900 × 560 × 1800mm		



ELECTRICALLY FIXED AUXILIARY LIFTING DEVICE

FUNCTION INTRODUCTION

- ① Use remote control to ascend and descend;
- ② Laser positioning is used to realize the precise positioning of the extracting frame;
- ③ No welding installation can realize the non-destructive installation of liquid nitrogen tank;
- ④ With larger working area, 340 degree free rotation can be achieved;
- ⑤ The boom slider is powered by electricity.



SPECIFICATIONS

MODEL	TQQ-DG 1300	deadweight	100kg
Maximum lifting height	1000mm	Maximum lifting weight	20kg
Sliding distance of cantilever suspension rope	600mm	Lifting speed	5m/min
Cantilever Rotation Degree of Freedom	-170° ~ +170°	power	2550w
Fuselage maximum size (length x width x height)	1900x365x1800mm		

MOBILE AUXILIARY LIFTING DEVICE

FUNCTION INTRODUCTION

- ① Use remote control to ascend and descend;
- ② It can move in all directions according to need;
- ③ Standardized mobile power supply;
- ④ Foldable storage, easy to move and store.



SPECIFICATIONS

MODEL	TQQ-SY 1000
Lifting Height	2900mm
Cantilever Rotation Degree of Freedom	-20° ~ +20°
Folding Dimensions (Lengthx Widthx Height)	1500x800x2600mm
Expansion Dimensions (Lengthx Width xHeight)	2100x800x3400mm
Lifting Speed	5m/min
Maximum Lifting Weight	20kg
Power	500w





—15—

PRODUCT OVERVIEW

Laboratory series combines the advantages of low liquid nitrogen consumption and medium storage capacity. It has the advantages of light weight, less space occupation and high efficiency storage of large sample freezing. It can meet the different needs of laboratory professionals. All models include freeze shelves and PC freeze boxes to ensure easy storage of samples.

L ABORATORY SERIES

PRODUCT FEATURES

- ① Durable aluminium structure;
- ② Matching freezing shelves and freezing boxes;
- ③ Large capacity and low liquid nitrogen consumption;
- ④ Optional safety lock cover structure to prevent others from unlocking without authorization;
- ⑤ Optional liquid level monitoring system;
- ⑥ Optional transport vehicle;
- ⑦ EU CE certification;
- ⑧ Five-year vacuum quality assurance.



EASY TO FIND YOUR SAMPLE

- ☺ Designed for long-term storage, it is easy to take and place samples;
- 📦 The marked freezing shelves and freezing boxes are convenient for quickly and effectively finding the required samples;
- ⬇️ It can be equipped with liquid level monitor to monitor the liquid level height in real time and send out low level sound and light alarm.



LABORATORY SERIES

—16—

Provide advanced intelligent bottle stoppers to protect irreplaceable biological samples.
When the liquid nitrogen page is low, it will be alerted by Wechat alarm in time.



Explore the fantastic cryogenic world

SPECIFICATIONS

MODEL		YDS-10-125-F	YDS-30-125-F	YDS-35-125-F	YDS-47-127-6Y	YDS-50B-125-F
Performance						
LN2 Capacity (L)		10	31.5	35.5	47	50
Weight Empty (kg)		6.3	13	14.6	18.2	17.3
Neck Opening (mm)		125	125	125	127	125
Outer Diameter (mm)		300	462	462	508	462
Overall Height (mm)		554	704	748	718	818
Static Evaporation Rate (L/day)		0.42	0.35	0.36	0.36	0.45
Static Holding Time (day)		24	90	97	130	110
Maximum Storage Capacity						
Racks 2ml Freezing Tube	Number of Racks (ea)	1	6/7	6/7	6/7	6/7
	Rack Dimension (mm)	82 × 84	82 × 84	82 × 84	105 × 100	82 × 84
	Vial Boxes Dimension (mm)	76 × 76	76 × 76	76 × 76	98	76 × 76
	Boxes per Rack (ea)	4	4	5	5	6
	1,2, 1.8 & 2 ml Vials (Internally Threaded)	100	600/700	750/875	1110/1295	900/1050
Racks 5ml Freezing Tube	Number of Racks (ea)	—	—	—	—	—
	Rack Dimension (mm)	—	—	—	—	—
	Vial Boxes Dimension (mm)	—	—	—	—	—
	Boxes per Rack (ea)	—	—	—	—	—
	1,2, 1.8 & 2 ml Vials (Internally Threaded)	—	—	—	—	—
Optional Accessories						
Lockable Lid		✓	✓	✓	✓	✓
PU Bag		—	✓	✓	—	✓
SmartCap		✓	✓	✓	✓	✓
Roller Base		—	✓	✓	✓	✓

MODEL		YDS-65-216-F	YDS-95-216-F	YDS-115-216-F	YDS-145-216-F	YDS-175-216-F
Performance						
LN2 Capacity (L)		65	95	115	145	175
Weight Empty (kg)		38.3	41.3	42.3	48.9	53.8
Neck Opening (mm)		216	216	216	216	216
Outer Diameter (mm)		681	681	681	681	681
Overall Height (mm)		712	774	846	946	1060
Static Evaporation Rate (L/day)		0.78	0.97	0.94	0.96	0.95
Static Holding Time (day)		83	98	122	151	184
Maximum Storage Capacity						
Racks 2ml Freezing Tube	Number of Racks (ea)	6/7	6/7	6/7	6/7	6/7
	Rack Dimension (mm)	142 × 144	142 × 144	142 × 144	142 × 144	142 × 144
	Vial Boxes Dimension (mm)	134 × 134	134 × 134	134 × 134	134 × 134	134 × 134
	Boxes per Rack (ea)	4	5	6	8	10
	1,2, 1.8 & 2 ml Vials (Internally Threaded)	2400/2800	3000/3500	3600/4200	4800/5600	6000/7000
Racks 5ml Freezing Tube	Number of Racks (ea)	6/7	6/7	6/7	6/7	6/7
	Rack Dimension (mm)	142 × 144	142 × 144	142 × 144	142 × 144	142 × 144
	Vial Boxes Dimension (mm)	134 × 134	134 × 134	134 × 134	134 × 134	134 × 134
	Boxes per Rack (ea)	2	2	3	4	5
	1,2, 1.8 & 2 ml Vials (Internally Threaded)	972/1134	972/1134	1458/1701	1944/2268	2430/2835
Optional Accessories						
Lockable Lid		✓	✓	✓	✓	✓
PU Bag		—	—	—	—	—
SmartCap		✓	✓	✓	✓	✓
Roller Base		✓	✓	✓	✓	✓

YDB-8Z AUTOMATIC
LIQUID NITROGEN PUMP

PRODUCT OVERVIEW

The automatic liquid nitrogen pump utilizes the physical characteristics of liquid nitrogen vaporization, uses intelligent control program to control and constant pressure in liquid nitrogen tank, and discharges liquid nitrogen from liquid nitrogen container through pressure difference. The whole process can be easily realized by the corresponding button switch, avoiding the disadvantages of damaging liquid nitrogen containers and large amount of volatilization loss of liquid nitrogen caused by manual dumping.



PRODUCT ADVANTAGES

The product has the advantages of small size, light weight, fast boost, rapid drainage, simple operation, convenient carrying, intelligent control, low labor intensity and so on. It is an ideal equipment for animal husbandry, medical and scientific research departments to extract liquid nitrogen from liquid nitrogen containers.

SPECIFICATIONS

MODEL	YDB-8Z
Caliber of Liquid Nitrogen Container (mm)	50
Voltage (V)	AC220
Maximum Discharge Volume (L/min)	8
Size (mm)	φ 160x920
Maximum Drainage Pressure (mPa)	0.1



PORTABLE STORAGE SERIES



PRODUCT OVERVIEW

Portable storage series is an economical and practical small liquid nitrogen tank specially designed for biological samples that need to be stored regularly. The series is small in size and light in weight. It is made of high strength light aluminium alloy and contains multi-layer super-strong heat insulation layer. It realizes the safety, lightness and efficiency of the product and has many accessories to choose from.

PRODUCT FEATURES

- 1 High strength, light weight and small size
aluminum structure;
- 2 Equipped with belt;
- 3 Ultra low evaporation loss;
- 4 Number coding for canister place;
- 5 Lockable lid is optional to prevent unauthorized open;
- 6 CE certified;
- 7 Five years vacuum warranty;



SPECIFICATIONS

MODEL	YDS-2-30	YDS-2-35	YDS-2	YDS-3	YDS-6	YDS-10
Performance						
LN2 Capacity (L)	2	2	2	3	6	10
Weight Empty (kg)	2.8	2.6	2.7	3.1	4.8	6.1
Neck Opening (mm)	30	35	50	50	50	50
Outer Diameter (mm)	223	204	223	223	300	300
Overall Height (mm)	399	428	385	435	482	552
Static Evaporation Rate (L/day)	0.07	0.08	0.10	0.12	0.12	0.12
Static Holding Time (day)	28	24	20	26	52	86
Maximum Storage Capacity						
Canister Diameter (mm)	19	25	—	38	38	38
Canister Height (mm)	120	120	—	120	120	120
Number of Canisters (ea)	3	3	—	6	6	6
Straws Capacity (120 mm canister)	0.5ml (ea)	90	165	—	792	792
	0.25ml (ea)	204	330	—	1788	1788
Straws Capacity (276 mm canister)	0.5ml (ea)	—	—	—	—	—
	0.25ml (ea)	—	—	—	—	—
Optional Accessories						
Lockable Lid	✓	✓	✓	✓	✓	✓
PU Bag	✓	—	—	✓	✓	✓
Smart Cap	—	—	✓	✓	✓	✓

S TATIC STORAGE SERIES



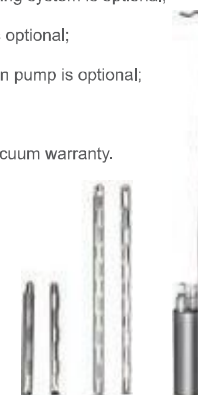
PRODUCT FEATURES

- 1 High strength, light weight and small size aluminum structure;
- 2 Equipped with belt;
- 3 Ultra low evaporation loss;
- 4 Large straw capacity;
- 5 Vials cane is optional;
- 6 Lockable lid is optional to prevent unauthorized open;
- 7 Level monitoring system is optional;
- 8 Roller base is optional;
- 9 Liquid nitrogen pump is optional;
- 10 CE certified;
- 11 Five years vacuum warranty.



VIALS CANE

Vials cane also can be matched with static storage series tanks to store 0.5ML~5ML vials.



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 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 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 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 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 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 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 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 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 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

PRODUCT OVERVIEW

Static storage series is an economical small liquid nitrogen tank for laboratory use. It is specially designed for biological samples that need long-term static storage. It has two types of products: large capacity and super-long storage period. This series is made of high strength and light weight aluminium alloy with multi-layer and super-strong insulation layer. It realizes the safety, lightness and efficiency of the product, and has a variety of accessories to choose from.

SPECIFICATIONS

MODEL	YDS-10-80	YDS-10-125	YDS-13	YDS-15	YDS-20	YDS-25	YDS-30		YDS-30-80	YDS-30-125	YDS-35	YDS-35-80	YDS-35-125	YDS-47-127	YDS-47-127-10T	YDS-50B-125
Performance									Performance							
LN2 Capacity (L)	10	10	13	15	20	25	31.5		31.5	31.5	35.5	35.5	35.5	47	47	50
Weight Empty (kg)	6.2	6.3	6.3	8.5	9.5	10.7	12.9		13	13	14.2	14.5	14.6	18.2	18.2	17.3
Neck Opening (mm)	80	125	50	50	50	50	50		80	125	50	80	125	127	127	125
Outer Diameter (mm)	300	300	310	394	394	394	462		462	462	462	462	462	508	508	462
Overall Height (mm)	557	554	623	591	672	700	705		709	704	749	753	748	718	718	818
Static Evaporation Rate (L/day)	0.21	0.43	0.12	0.11	0.12	0.14	0.12		0.21	0.35	0.12	0.22	0.37	0.36	0.36	0.45
Static Holding Time (day)	48	24	109	134	168	180	254		147	90	286	159	97	130	130	110
Maximum Storage Capacity									Maximum Storage Capacity							
Canister Diameter (mm)	63	97	38	38	38	38	38		63	97	38	63	97	104	72	97
Canister Height (mm)	120	120	276	120	120/276	120/276	120/276		120/276	120	120/276	120/276	120/276	120/276	276	120/276
Number of Canisters (ea)	6	1	6	6	6	6	6		6	6	6	6	6	6	10	6
Straws Capacity (120 mm canister)	0.5ml (ea)	2244	854	—	792	792	792		2244	5124	792	2244	5124	6714	—	5124
	0.25ml (ea)	5022	1940	—	1788	1788	1788		5022	11640	1788	5022	11640	14070	—	11640
Straws Capacity (276 mm canister)	0.5ml (ea)	—	—	1284	—	1284	1284		3624	—	1284	3624	9048	10704	8200	9048
	0.25ml (ea)	—	—	2832	—	2832	2832		8460	—	2832	8460	20760	23604	16400	20760
Optional Accessories									Optional Accessories							
Lockable Lid	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
PU Bag	✓	—	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	—	—	✓
Level Monitor	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
Roller Base	—	—	—	—	—	—	✓		✓	✓	✓	✓	✓	✓	✓	✓



Lock Cover



Protective Box Diagram of
Liquid Nitrogen Tank



Smart Cap



5-Wheeled Transport Trolley



Round Pail



Freezing Pipe Clamp

SPECIAL TRANSPORT SERIES



PRODUCT OVERVIEW

The transport storage series are economical small liquid nitrogen tanks designed specifically for biological samples static storage and for transporting biological samples. The series is made of high strength lightweight aluminum alloy, containing multi-layer insulation to make the product safe, lightweight and efficient, and it has a variety of accessories optional.

PRODUCT FEATURES

- 1 High strength, light weight and small size aluminum structure;
- 2 Equipped with belt;
- 3 Ultra low evaporation loss;
- 4 Large straw capacity;
- 5 Vials tube is optional;
- 6 Lockable lid is optional to prevent unauthorized open;
- 7 Level monitoring system is optional;
- 8 Roller base is optional;
- 9 Liquid nitrogen pump is optional;
- 10 CE certified;
- 11 Five years vacuum warranty;



SPECIFICATIONS

MODEL	YDS-20B	YDS-30B	YDS-35B	YDS-35B-80	YDS-35B-125	YDS-50B	YDS-50B-125
Performance							
LN2 Capacity (L)	20	31.5	35.5	35.5	35.5	50	50
Weight Empty (kg)	9.5	12.9	14.2	14.5	14.6	17.2	17.3
Neck Opening (mm)	50	50	50	80	125	50	125
Outer Diameter (mm)	394	462	462	462	462	462	462
Overall Height (mm)	672	705	749	753	748	810	818
Static Evaporation Rate (L/day)	0.20	0.20	0.20	0.30	0.41	0.24	0.45
Static Holding Time (day)	101	159	179	119	86	213	110
Maximum Storage Capacity							
Canister Diameter (mm)	38	38	38	63	97	38	97
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276	120/276
Number of Canisters (ea)	6	6	6	6	6	6	6
Straws Capacity (120 mm canister)	0.5ml (ea)	792	792	792	2244	5124	792
	0.25ml (ea)	1788	1788	1788	5022	11640	1788
Straws Capacity (276 mm canister)	0.5ml (ea)	1284	1284	1284	3624	9048	1284
	0.25ml (ea)	2832	2832	2832	8460	20760	2832
Optional Accessories							
Lockable Lid	✓	✓	✓	✓	✓	✓	✓
PU Bag	✓	✓	✓	✓	✓	✓	✓
SmartCap	✓	✓	✓	✓	✓	✓	✓
Roller Base	✓	✓	✓	✓	✓	✓	✓

DRY SHIPPER SERIES



PRODUCT OVERVIEW

Dry shipper series is suitable for cryogenic environment (vapor storage at temperatures below -190 °C) transportation for samples. It could avoid the risk of the liquid nitrogen releasing during transportation, especially designed for short-term air transport. The internal liquid nitrogen adsorbent, can absorb and save liquid nitrogen, even if the container falls down, liquid nitrogen would not pour out. It uses special stainless steel mesh to separate storage space and absorption material, to avoid liquid nitrogen absorption material mixed into the sample. Mainly used for laboratory users and short-term delivery of small number samples.

PRODUCT FEATURES

- 1 Vapor cryogenic storage;
- 2 Fast liquid nitrogen filling;
- 3 High strength aluminum construction;
- 4 Lockable lid;
- 5 No liquid nitrogen overflow;
- 6 Straws or vials storage is optional;
- 7 CE certified;
- 8 Three years vacuum warranty.



SPECIFICATIONS

MODEL		YDS-3H	YDS-6H-80	YDS-10H-125	YDS-25H-216
Performance					
Effective Capacity (L)		1.3	2.9	3.4	9
Weight Empty (kg)		3.2	4.9	6.7	15
Neck Opening (mm)		50	80	125	216
Outer Diameter (mm)		223	300	300	394
Overall Height (mm)		435	487	554	716
Static Evaporation Rate (L/day)		0.16	0.20	0.43	0.89
Static Holding Time (day)		20	37	23	29
Effective Shelf Life		8	14	8	10
Maximum Storage Capacity					
Canister	Canister Diameter (mm)	38	63	97	—
	Canister Height (mm)	120	120	120	—
	Number of Canisters (ea)	1	1	1	—
	Straws Capacity (120 mm canister)	0.5ml (ea)	132	374	854
		0.25ml (ea)	298	837	1940
Racks and Vials Boxes	Number of Racks (ea)	—	—	1	1
	Vial Boxes Dimension (mm)	—	—	76 × 76	134 × 134
	Boxes per Rack (ea)	—	—	4	5
	1.2; 1.8 & 2 ml Vials (Internally Threaded)	—	—	100	500
25 ml blood bag	Number of Racks (ea)	—	—	1	1
	Stages per Rack (ea)	—	—	1	2
	Boxes per Stage (ea)	—	—	3	15
	Blood Bag Capacity (ea)	—	—	3	30
50 ml blood bag	Number of Racks (ea)	—	—	1	1
	Stages per Rack (ea)	—	—	1	1
	Boxes per Stage (ea)	—	—	3	15
	Blood Bag Capacity (ea)	—	—	3	15
Optional Accessories					
Lockable Lid		✓	✓	✓	✓
PU Bag		✓	✓	—	—
SmartCap		✓	✓	✓	✓

L LIQUID NITROGEN FILLING TANK SERIES



PRODUCT OVERVIEW

Liquid nitrogen filling tank series is mainly used for liquid nitrogen storage. It uses small amount of liquid nitrogen vaporizing to increase the pressure inside the tank, so that the tank can automatically discharge liquid nitrogen to other containers. The stainless steel structure design is suitable for most environment and reduces the rate of evaporation losses. All the models are equipped with pressure building valve, liquid valve, release valve and pressure gauge. All the models are equipped with 4 rollers at the bottom for easy to move. Mainly applicable to laboratory users and chemical users for liquid nitrogen storage and liquid nitrogen automatic supply.

PRODUCT FEATURES

- 1 Unique neck design, low evaporation loss rate;
 - 2 A protective operating ring;
 - 3 Safe structure;
 - 4 Stainless steel tank;
 - 5 With rollers for easy to move;
 - 6 CE certified;
 - 7 Five years vacuum warranty;
- 1 Level display is optional;
 - 2 Digital signal remote transmission;
 - 3 Regulator is optional for stable pressure;
 - 4 Solenoid valve is optional;
 - 5 Automatic filling system is optional.



PRODUCT ADVANTAGES

SPECIFICATIONS

MODEL	YDZ-5	YDZ-15	YDZ-30	YDZ-50
Performance				
LN2 Capacity (L)	5	15	30	50
Neck Opening (mm)	40	40	40	40
Daily Evaporation Rate of Static Liquid Nitrogen (%) ★	3	2.5	2.5	2
Transfusion Volume(L/min)	—	—	—	—
Maximum Storage Capacity				
Overall Height (mm)	510	750	879	991
Outer Diameter (mm)	329	404	454	506
Weight Empty (kg)	15	23	32	54
Standard Working Pressure (mPa)	0.05			
Maximum Working Pressure (mPa)	0.09			
Setting Pressure of The First Safety Valve (mPa)	0.099			
Setting Pressure of The Second Safety Valve(mPa)	0.15			
Pressure Gauge Indication Range (mPa)	0 ~ 0.25			

MODEL	YDZ-100	YDZ-150	YDZ-200	YDZ-240	YDZ-300	YDZ-500
Performance						
LN2 Capacity (L)	100	150	200	240	300	500
Neck Opening (mm)	40	40	40	40	40	40
Daily Evaporation Rate of Static Liquid Nitrogen (%) ★	1.3	1.3	1.2	1.2	1.1	1.1
Transfusion Volume(L/min)	—	—	—	—	—	—
Maximum Storage Capacity						
Overall Height (mm)	1185	1188	1265	1350	1459	1576
Outer Diameter (mm)	606	706	758	758	857	1008
Weight Empty (kg)	75	102	130	148	202	255
Standard Working Pressure (mPa)	0.05					
Maximum Working Pressure (mPa)	0.09					
Setting Pressure of The First Safety Valve (mPa)	0.099					
Setting Pressure of The Second Safety Valve(mPa)	0.15					
Pressure Gauge Indication Range (mPa)	0 ~ 0.25					

★ Static evaporation rate and static holding time is the theoretical value. Actual evaporation rate and holding time will be affected by container usage, atmospheric conditions and manufacturing tolerances.

SERIES CONFIGURATION GUIDELINES

Conventional Series	E Series	K Series
Standard: Single-layer infusion hose (ZG-DN10/1.5)	Standard: Single-layer infusion hoseex (ZG-DN10/1.5)	Standard: Single-layer infusion hosex (ZG-DN10/1.5)
Optional: Float level gauge	Digital display level meter(DLZ-100) No data remote transmission function	Digital display level meter (DLZ-300) and Voltage stabilizing device; With liquid level data remote transmission function; Suitable for automatic replenishment system

★ From 100 to 500 liters, E and K series can be selected, of which YDZ-240 has no conventional series.

FOOD SERIES

SJ-R6000 SEAFOOD LIQUID NITROGEN FREEZING TANK FOR FREEZING STORAGE



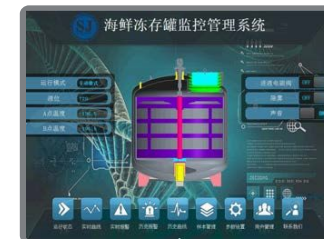
Stainless steel spray paint

Stainless steel polishing section

PRODUCT OVERVIEW

Liquid nitrogen cryopreservation of seafood is a new food freezing technology in recent years. The standard temperature of liquid nitrogen is -195.8°C , which is the most environmentally friendly, efficient and economical cooling medium recognized by the food science and technology circles. When liquid nitrogen is in contact with seafood, the difference of temperature is more than 200°C , and the rapid freezing of food can be realized within 5 minutes. Rapid freezing makes the ice crystal particles produced by seafood smallest, prevents the loss of water, inhibits the destruction of food by bacteria and other microorganisms, makes food almost free from oxidative discoloration and fats rancidity, and maintains the original color, flavor and nutrients of seafood, so long-term freezing can also ensure the best taste.

Seafood liquid nitrogen freezer is the first to be used in high-grade seafood freezing because of its fast refrigeration, long storage time, low equipment input cost, low operation cost, no energy consumption, no noise and no maintenance. It can be predicted that liquid nitrogen cryogenic refrigeration technology will gradually replace the traditional mechanical refrigeration and refrigeration technology, which will bring profound changes to the operation of traditional freezer.



PRODUCT FEATURES

- 1 High vacuum multi-layer insulation technology is adopted to ensure very low loss rate of liquid nitrogen evaporation ($<0.8\%$) and very low operation cost;
- 2 Intelligent monitoring and management system of liquid nitrogen tank can monitor the temperature and liquid level of seafood tank in real time, realize automatic rehydration, alarm for various potential faults, and ensure the safe operation of equipment. At the same time, it provides the storage goods management system, which makes the management of goods out of warehouse and in warehouse clear at a glance;
- 3 The inner and outer shells are made of food-grade stainless steel to ensure the product's life for more than 10 years;
- 4 The internal revolving tray structure is designed to facilitate seafood access. Some models can be equipped with electric rotating structure to realize automatic access;
- 5 It can be stored in both gas and liquid to ensure that the temperature of the tank mouth reaches -190°C .



SPECIFICATIONS

MODEL	YDD-6000-650	YDD-6000Z-650
Effective Capacity (L)	6012	6012
Liquid Nitrogen Volume Under Pallet (L)	805	805
Neck Opening (mm)	650	650
Internal Effective Height (mm)	1500	1500
Outer Diameter (mm)	2216	2216
Total Height (Including Instrument) (mm)	3055	3694
Weight Empty (kg)	2820	2950
Operating Height (mm)	2632	2632
Voltage (V)	24V DC	380V AC
Power (W)	72	750



LIQUID NITROGEN ICE CREAM MACHINE



PRODUCT FEATURES

- 1 Electric booster system, by the control instrument to achieve boosting and pressure stabilization, control the internal pressure in the ultra-low pressure range, safe and reliable;
- 2 The liquid level display and alarm functions are complete, which is convenient for real-time monitoring of the liquid level;
- 3 High vacuum multi-layer insulation technology can reduce liquid nitrogen consumption, save energy and protect environment;
- 4 Foldable operation platform to reduce occupancy space;
- 5 The chassis is clean and beautiful with plastic spraying technology.



PRODUCT ADVANTAGES

Delicious Entry, Healthy Nutrition



The instantly lowered temperature of liquid nitrogen can make the raw material crystalize quickly, the ice crystal is fine and uniform, and the taste is soft and delicate. At the same time, the raw material of ice cream is surrounded by nitrogen during freezing process, which reduces the contact with air, so it does not occur oxidative discoloration and fatty acid deterioration, and better maintains the original freshness, color, fragrance and nutritional value of ice cream.



Quality safety



Man-machine interface system can automatically pressurize and constant pressure to make ice cream high-quality and efficient; drainage switch, low liquid level alarm, liquid level pressure display, so that the operation is safer and more convenient.



Good moulding and high output



Ice cream produced by liquid nitrogen impregnation has a smooth and smooth surface due to the extremely low temperature of liquid nitrogen freezing. It does not produce melting, bonding, surface cracking, shedding and other phenomena. It tastes better. One liter of liquid nitrogen can produce 10 ice cream.



User friendly design



The whole machine has high cost performance, small floor area, convenient movement and strong wear resistance with high quality universal casters, foldable platform, integrated design, convenient reception and thorough removal of sanitary dead angle.



SPECIFICATIONS

MODEL	YBL-50Z
Dimensions (Length × Width × Height) (mm)	940 × 690 × 1140(Folding Size of Bar) 1550 × 690 × 1140(Bar Expansion Size)
Net Weight (kg)	105
Use Pressure (mPa)	< 0.1 (Default Voltage Control 0.025 MPa)
Low Level Alarm	940 Liquid Level Below 50 mm
Main Material of Liquid Nitrogen Container	06Cr19Ni10
Main Material of Box	Q235 (High Temperature Plastic Spraying on Internal and External Surfaces)
Specification for Thread of Liquid Nitrogen Container Rehydration Port	UNF3/4 External Thread
External Power Supply (V)	AC220V
Effective Volume of Liquid Nitrogen Container (L)	50
Thermal Insulation Form of Liquid Nitrogen Tank	High Vacuum Multilayer Insulation

SMART CAP LT-50 , LT-80 , LT-125 , LT-216



PRODUCT OVERVIEW

SmartCap intelligent cork, with liquid nitrogen tank level monitoring and temperature monitoring functions of highly integrated low-power Internet of Things module. It is suitable for 50MM/80MM/125MM/216MM caliber liquid nitrogen tank products, but also compatible with other similar liquid nitrogen tank on the market (only internal height and caliber can be configured), built-in high-efficiency nickel batteries, effective working time up to 2 years. When it collects liquid level and temperature data, it transmits the collected data to the data relay for storage at a fixed frequency (10 minutes per time) by 2.4 G wireless mode.

PRODUCT FEATURES

- ① Double independent measurement system for high accuracy liquid level measurement and temperature measurement;
- ② Real-time display of liquid level and temperature and free setting of SMS, email and WeChat alarm;
- ③ Send liquid level data and temperature data to smart box wirelessly;
- ④ Remote transmission of liquid level data and temperature data to the Cloud, realizing data recording, printing, storage and other functions;
- ⑤ Adopt internal imported special-shaped nickel battery for power supply, with long battery life.



SPECIFICATIONS

MODEL	LT-50/LT-80/LT-125/LT-216		
Working Temperature	-20 ~ 40℃	Level Measurement Range	160 ~ 700mm
Relative Humidity	≤ 75% (25℃)	Level Error	± 5mm
Instrument Input Power Supply	3.6V	Temperature Measurement Range	-200 ~ 200℃
Level Sensor	Capacitance	Temperature Error	± 0.1℃
Temperature Sensor	PT-100		

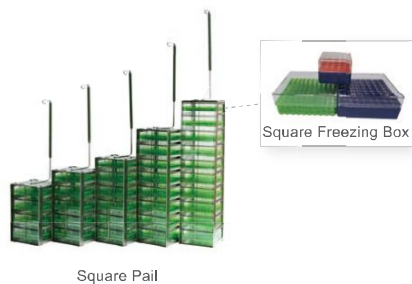


TOPOLOGY DIAGRAM OF SMARTCAP INTELLIGENT CONTROL AND MANAGEMENT SYSTEM FOR BOTTLE STOPPERS



PARTS

RACKS AND VIALS BOXES



BLOOD BAG RACK



CANISTER



INSTRUMENT CATEGORY



OTHER PARTS

