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Factory Video



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河南天驰低温机械设备制造有限公司

HENAN TIANCHI CRYOGENIC MACHINERY EQUIPMENT MANUFACTURING CO., LTD.

公司简介

Company Profile

河南天驰低温机械设备制造有限公司是一家专业研发、生产、销售液氮生物容器及其相关产品的高科技企业，缔造全球领先的液氮生物容器供应商。

Henan Tianchi Cryogenic Machinery Equipment Manufacturing Co., Ltd. is a high-tech enterprise specializing in the research, development, production and sales of liquid nitrogen biological containers and related products, creating the world's leading supplier of liquid nitrogen biological containers.



一直以来天驰人以“服务，健康，未来”为企业使命，秉承“让世界爱上中国造”的企业理念，坚守“持续改进，力求更好”的质量理念，为“建百年天驰，创世界品牌”的企业愿景不懈奋进。

Tianchi have always taken "service, health, and future" as the corporate mission, adhering to the corporate philosophy of "making the world fall in love with Made in China", and adhering to the quality concept of "continuous improvement, striving for better", and for "building a century-old Tianchi, The corporate vision of "creating a world brand" is unremittingly forging ahead.

天驰低温主营产品——液氮生物容器，多次在质量评定中获得优异成绩，产品通过ISO9001、CE、SGS等国内和国际认证。我们始终坚持“始于客户需求，止于客户满意”的服务理念，一切以用户体验为中心，不断提升自身的科技和服务水平。在全球范围内，我们帮助数以万计的用户解决了问题，同时探索更深层次的用户需求，不断改进产品性能，完善用户体验。

Liquid nitrogen biological container is the main product of Tianchi factory, has achieved excellent results in quality assessment for many times, and the products have passed ISO9001, CE, SGS and other domestic and international certifications. We always adhere to the service concept of "Begin with customers' needs, End(complete, finish) with customers' satisfaction", all focus on user experience, and constantly improve our technology and service level. On a global scale, we have helped tens of thousands of users solve questions, explore deeper user needs, continuously improve product performance, and improve user experience.

天驰液氮罐凭借前沿的科技，新颖的产品，以科学的产品构想和不断创新的精神已成为液氮罐行业的翘楚。如今已成为国内外规模大、设备先进、产品型号齐全的液氮罐生产厂家。天驰液氮罐销量已稳居全球液氮罐销量前列，荣获诸多国内外荣誉奖项。

Tianchi liquid nitrogen tank has become a leader in the liquid nitrogen tank industry with cutting-edge technology, innovative products, scientific product ideas and continuous innovation. Today, it has become a large-scale liquid nitrogen tank manufacturer with advanced equipment and complete product models at home and abroad. The sales volume of Tianchi liquid nitrogen tanks has steadily ranked in the forefront of global liquid nitrogen tank sales, and has won many domestic and foreign honorary awards.

天驰低温以缔造全球领先的液氮生物容器生产商和供应商为目标，始终致力于把先进的产品带给全球用户，通过遍布全球的合作伙伴，我们向世界各地用户提供优质的产品和服务，目前产品已经销售到美国、巴西、乌兹别克斯坦、泰国等四十多个国家。

As the leading global manufacturer and supplier of liquid nitrogen biological containers, Tianchi Cryogenics has always been committed to bringing the most advanced products to users around the world. Through partners all over the world, we provide the highest quality products and services to users around the world. At present, the products have been sold to more than 40 countries such as the United States, Brazil, Uzbekistan and Thailand.

荣誉资质

Honor and Qualification



公司先后通过了ISO9001质量体系认证，CE欧盟安全认证、SGS国际通用认证、BV国际通用认证。

The company has passed ISO9001 quality system certification, CE EU safety certification, SGS international general certification, and BV international general certification.

生产车间

Production Workshop



产品结构

Structure

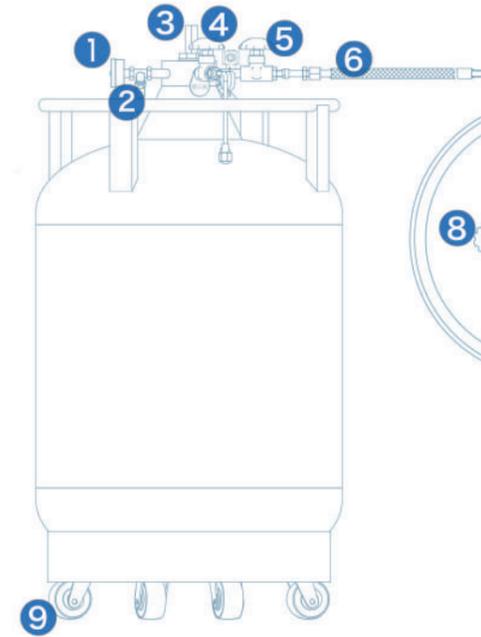


储存型
Storage type



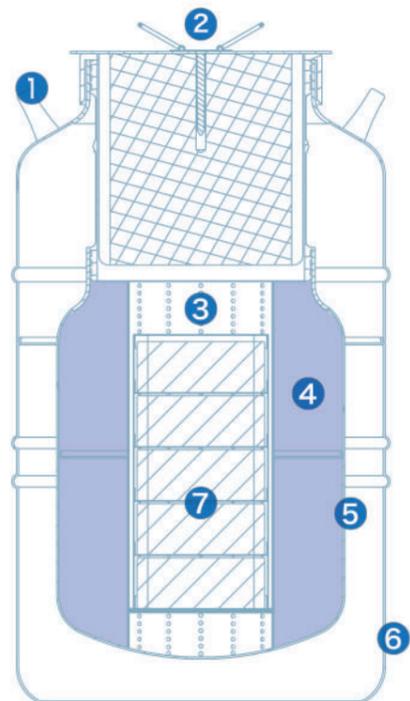
运输型
Transportation type

- ① 把手
Hand
- ② 颈塞
Neck plug
- ③ 颈管
Neck tube
- ④ 内胆
Outer shell
- ⑤ 内胆
Inner shell
- ⑥ 提桶
Canister
- ⑦ 固定支撑
Fixed support

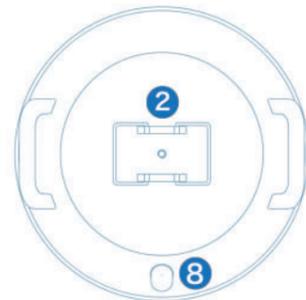


自增压液氮罐
Self-pressure liquid nitrogen tank

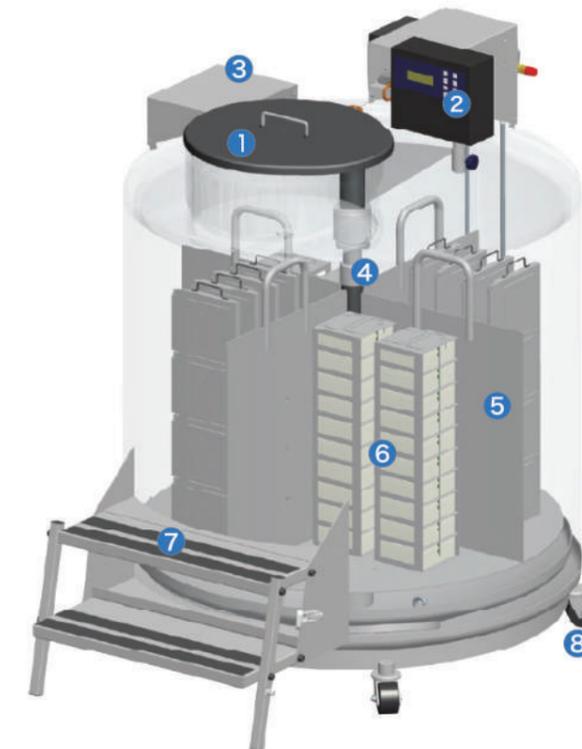
- ① 压力表
Pressure gauge
- ② 双安全阀
Dual safety valves
- ③ 浮力液位计
Buoyancy level gauge
- ④ 增压阀
Booster valve
- ⑤ 进/排液阀
Inlet/Outlet valve
- ⑥ 输液软管
Infusion hose
- ⑦ 稳压阀 (可选配)
Pressure stabilizing valve (optional)
- ⑧ 放空阀
Vent valve
- ⑨ 移动脚轮
Mobile casters



航空型
Dry shipper



- ① 把手
Hand
- ② 颈塞
Neck plug
- ③ 金属网筛
Metal mesh sieve
- ④ 液氮吸附体
Liquid nitrogen adsorbent
- ⑤ 内胆
Inner container
- ⑥ 内胆
Outer container
- ⑦ 冻存架
Cryopreservation rack
- ⑧ 真空口
Vacuum port



生物样本库
Biological sample bank

- ① 偏口式开口
Sliding opening
- ② 智能屏幕
Intelligent screen
- ③ 辅助工作台
Auxiliary workbench
- ④ 旋转托盘
Rotating tray
- ⑤ 分隔板
Partition board
- ⑥ 冻存架
Freezing rack
- ⑦ 可折叠台阶
Foldable steps
- ⑧ 移动脚轮
Mobile casters

储存型液氮罐系列

Storage Series Liquid Nitrogen Tank



产品概述 Product Description

天驰储存型 YDS 系列液氮罐由优质航空铝制造而成,主要适用于需要在静态条件下大容量的贮存液氮和生物样品,以及需要经常性地靠人工转移保存样品的用户。具有小巧轻便、易于携带、静态液氮日蒸发率低、贮存生物样品容量大、经济实用等优点。

Tianchi storage type YDS series liquid nitrogen tank is made of high-quality aviation aluminum. It is mainly suitable for users who need to store liquid nitrogen and biological samples in large capacity under static conditions, and who need to store samples by manual transfer frequently. It has the advantages of small size and light weight, easy to carry, low daily evaporation rate of static liquid nitrogen, large storage capacity of biological samples, economical and practical, etc.

产品特点 Features

- 1、采用高强度航空铝制造;
 - 2、产品易于长期保存生物样本,便于携带;
 - 3、配有保护套,可防止产品在使用中的磕碰;
 - 4、可编号提桶,方便辨认和独立存取样品;
 - 5、可选配锁盖,以保护贮存样品安全;
 - 6、高真空多层绝热设计,提供不低于五年真空质保。
1. Made of high-strength aviation aluminum.
 2. Easy and long-term preservation of biological samples, easy to carry.
 3. Equipped with a protective bag to avoid product bump.
 4. Numbered canisters for easy identification and independent access to samples.
 5. Optional lock cover to protect the safety of stored samples.
 6. High vacuum multi-layer insulation design, providing no less than five years vacuum warranty.

产品型号 Model	容积 Volume (L)	口径 Caliber (mm)	外径 O.D (mm)	高度 Height (mm)	静态液氮 保存期 Static retention period (D)	静态液氮 蒸发量 Static evaporation rate (L/day)
YDS-1-35	1.30	35	180	350	11	0.09
YDS-2-35	2.20	35	180	420	23	0.08
YDS-3	3.10	50	225	465	26	0.12
YDS-3-80	3.10	80	224	460	15	0.20
YDS-3-125	3.10	125	224	460	4	0.75
YDS-6	6.40	50	283	520	52	0.12
YDS-6-80	6.40	80	283	500	30	0.20
YDS-6-125	6.40	125	283	475	12	0.50
YDS-6-216	6.40	216	304	480	2	3.00
YDS-10	10.40	50	304	575	86	0.12
YDS-10-80	10.40	80	304	575	48	0.21
YDS-10-125	10.40	125	305	540	23	0.43
YDS-10-216	10.40	216	304	575	10	1.00
YDS-13	15.10	50	304	675	109	0.12
YDS-15	16.40	50	385	610	134	0.11
YDS-15-80	16.40	80	385	590	80	0.19
YDS-15-125	16.40	125	385	600	42	0.36
YDS-15-216	16.40	216	385	590	15	1.00
YDS-16	17.40	50	441	525	88	0.18
YDS-16-80	17.40	80	441	535	80	0.20
YDS-20	21.40	50	385	655	168	0.12
YDS-20-80	21.40	80	385	630	93	0.22
YDS-20-125	21.40	125	385	640	57	0.35
YDS-20-216	21.40	216	385	630	33	0.61
YDS-25	25.20	50	440	675	208	0.12
YDS-30	31.50	50	440	715	254	0.12
YDS-30-80	31.50	80	440	715	147	0.20
YDS-30-125	31.50	125	440	740	90	0.33
YDS-30-216	31.50	216	440	710	42	0.71
YDS-35	35.20	50	440	760	286	0.12
YDS-35-80	35.20	80	440	760	159	0.22
YDS-35-125	35.20	125	440	760	97	0.36
YDS-35-216	35.20	216	440	760	50	0.70
YDS-47-127	52.10	127	516	790	110	0.46
YDS-50B	52.10	50	516	790	209	0.24
YDS-50B-80	52.10	80	516	790	147	0.34
YDS-50B-125	52.10	125	515	815	110	0.46
YDS-50B-216	52.10	216	516	790	65	0.76

运输型液氮罐系列

Transport Liquid Nitrogen Tank



产品概述 Product Description

天驰运输YDS系列液氮罐是一种经济小型液氮罐，主要为需要短距离运输条件下的用户提供良好的选择。该系列选用高强度轻质航空铝材质制造，内含多个支撑结构，保证罐体安全运输和液氮的低挥发率，具有耐倾倒、适宜长途运输等优点。

Tianchi Transportation YDS series liquid nitrogen tank is an economical small liquid nitrogen tank, which mainly provides a good choice for users who need short-distance transportation. This series is made of high-strength lightweight aviation aluminum and it contains multiple supporting structures to ensure the safe transportation of the tank and the low volatilization rate of liquid nitrogen. It has the advantages of being resistant to dumping and suitable for long-distance transportation.

产品特点 Features

- 1、有特制的防震结构，稳固运输
Shock-proof structure, designed for transportation only;
- 2、配有保护套，防磨耐污；
Equipped with a protective cover, resistant to wear and stains;
- 3、窄口设计降低液氮消耗
Narrow-mouth design reduces liquid nitrogen consumption;
- 4、配有锁盖，为样本提供安全保障；
Comes with a locking cover to protect sample safety;

产品型号 Model	容积 Volume (L)	口径 Caliber (mm)	外径 O.D (mm)	高度 Height (mm)	静态液氮 保存期 Static retention period (D)	静态液氮 蒸发量 Static evaporation rate (L/day)
YDS-10B	10.40	50	304	575	52	0.19
YDS-15B	16.40	50	385	610	82	0.18
YDS-20B	21.40	50	385	655	101	0.20
YDS-25B	25.20	50	440	675	125	0.20
YDS-30B	31.50	50	440	740	159	0.19
YDS-35B	35.20	50	440	760	179	0.20
YDS-50B	52.10	50	516	790	209	0.24

GP、Lab液氮罐系列

GP & Lab Series Liquid Nitrogen Tank

GP液氮罐

一款专为样本的采集、转运及短途运输而设计的便捷式液氮罐。配备可调节手提带，即便在户外等移动场景下也能轻松携带。35mm小口径设计，可有效减少液氮挥发。无论是科研实验室的样本冻存、医疗领域的低温应用，还是户外现场的样本采集等场景，GP系列液氮罐都能以便捷的移动性与可靠的低温存储能力，满足多样化的液氮使用需求。

The GP series liquid nitrogen tanks are specially designed for sample collection, transportation and short-distance shipping. They are equipped with adjustable carrying straps, allowing for easy carrying even in mobile scenarios such as outdoors. The 35mm small-diameter design effectively reduces the evaporation of liquid nitrogen. Whether it is sample freezing in the laboratory, in the medical field, or sample collection in the field, the GP series liquid nitrogen tanks can meet diverse liquid nitrogen usage requirements with their convenient mobility and reliable low-temperature storage capabilities.



Lab液氮罐

专为实验室场景打造，侧面设计便于操作人员轻松握持并精准控制倾倒角度的把手，能够在液氮转移等实验操作中，显著提升取用的便利性与安全性，助力科研及实验工作高效开展，满足实验室对液氮规范、便捷取用的需求。

The Lab series liquid nitrogen tanks are specially designed for laboratory environments. The side design features a handle that is easy for operators to hold and precisely control the pouring angle. This design significantly enhances the convenience and safety of liquid nitrogen transfer and other experimental operations, facilitating efficient scientific research and experimentation, and meeting the laboratory's requirements for standardized and convenient access to liquid nitrogen.



产品型号 Model	容积 Volume (L)	口径 Caliber (mm)	外径 O.D (mm)	高度 Height (mm)	静态液氮 保存期 Static retention period (D)	静态液氮 蒸发量 Static evaporation rate (L/day)
GP-2	2.00	35	180	400	20	0.10
Lab-3	3.15	35	180	520	30	0.10
Lab-4	4.00	35	224	475	25	0.16

定制款液氮罐系列

Customized Liquid Nitrogen Tank



产品概述 Product Description

大容量小口液氮罐系列专为大容量存储需求而设计。容积覆盖65-210升，可容纳海量液氮与多样样本，为您的珍贵生物材料、科研标本等提供充足存储空间。

独特的50mm小口定制设计，有效降低液氮蒸发速率，极大延长保存时间，减少液氮补充频次。是畜牧、科研机构、医疗企业、生物工程等领域液氮存储的理想之选。

The series of large-volume liquid nitrogen tanks with small openings are specially designed to meet the needs of large-capacity storage. With a volume ranging from 65 to 210 liters, they can hold a huge amount of liquid nitrogen and various samples, providing sufficient storage space for your precious biological materials, scientific research specimens and so on.

The unique customized design with a 50mm small opening effectively reduces the evaporation rate of liquid nitrogen, greatly extends the storage time and reduces the frequency of liquid nitrogen replenishment. It is an ideal choice for liquid nitrogen storage in fields such as animal husbandry, scientific research institutions, medical enterprises and bioengineering.

产品特点 Features

- | | |
|-----------------------------------|-------------------|
| 1、65 - 210升容积，为液氮与各类样本提供海量存储空间 | 2、高强度轻量化铝制结构，经久耐用 |
| 3、可定制50/80/125mm口径，可个性化定制，适配多行业需求 | 4、可选配保护套，防止磕碰 |
| 5、产品CE，ISO质量认证 | 6、可选配移动推车，方便运输 |
- 65 - 210 liters capacity, providing massive storage space for liquid nitrogen and various samples.
 - Customizable with 50/80/125mm diameters, allowing for personalized customization.
 - High-strength lightweight aluminum structure, durable and long-lasting.
 - Comes with a protective cover to prevent bumps.
 - Equipped with a mobile cart for convenient transportation.
 - CE and ISO quality certifications for the product.

产品型号 Model	容积 Volume (L)	口径 Caliber (mm)	外径 O.D (mm)	高度 Height (mm)	静态液氮 保存期 Static retention period (D)	静态液氮 蒸发量 Static evaporation rate (L/day)
YDS-65T-50	70.50	50	610	770	200	0.35
YDS-80-50	85.50	50	680	735	244	0.35
YDS-100-50	105.50	50	680	795	278	0.38
YDS-120-50	120.50	50	680	855	300	0.40
YDS-120T-50	125.50	50	610	1080	310	0.40
YDS-135-50	135.50	50	680	915	339	0.40
YDS-150-50	150.50	50	680	975	358	0.42
YDS-165-50	165.50	50	680	1035	376	0.44
YDS-180-50	180.50	50	680	1095	410	0.44
YDS-195-50	195.50	50	680	1155	425	0.46
YDS-210-50	210.50	50	680	1205	448	0.47

* 大容量多口径随心定制,更多定制容量详询客服! 可定制 50/80/125mm/ 平口 / 法兰口等。

注:

1. 本宣传册所有表中所述的几何容积 / 高度 / 外径 / 直径等数值均属于实际测量值,因测量器具 / 环境等因素影响,可能存在误差,误差范围不超过 ±3%。
2. 静态液氮保存期: 在标准状态 (大气压 101.325 kPa, 环境温度 20 °C) 下, 容器中充入液氮预冷并达到热平衡后, 且液氮充满率达到 100%, 静态放置至液氮全部蒸发完的天数。
3. 静态蒸发率: 容器在规定的充满率下, 静置达到热平衡后, 24 h 内自然蒸发损失的液氮质量和与内胆有效容积下盛装液氮质量的百分比, 换算为标准状态 (大气压 101.325 kPa, 环境温度 20 °C) 下的蒸发率值。

※ 定制款法兰口、平口液氮罐



法兰口、平口液氮罐是一种专为特定低温存储需求设计的专业容器。

它采用高强度轻量化铝制结构制造, 通过独特的KF法兰口, 平口设计, 方便与各类相关设备或管道进行连接, 实现液氮的高效传输与存储。口径小, 蒸发损失率低, 是一种高效、方便、经济的储存和分配液氮的容器类型, 操作中可倾倒、加压排出液氮。广泛应用于科研实验、生物样本库、工业生产等领域。

- 1、定制KF50、平口设计, 方便液氮泵连接 (连接紧密、密封良好, 有效防止液氮泄漏);
- 2、高质量的颈形管减少了液氮的损失;
- 3、高强度轻量化铝制结构, 经久耐用;
- 4、多种容积可供选择;
- 5、可配保护套, 防止磕碰;
- 6、可配移动推车, 方便运输;
- 7、5年真空质保;
- 8、产品CE, ISO质量认证。



法兰口/Flap opening



平口/Flat edge

实验室液氮罐系列

Laboratory Series Liquid Nitrogen Tank



产品概述 Product Description

天驰实验室YDS系列液氮罐由专用航空铝材质制造而成，具有液氮挥发率低，重量轻，占用空间小，较大容量样本冻存等优点，可满足实验室专业人士的不同需求。所有型号可配冻存架和PC冻存盒，确保样本方便储存。同时该系列产品还满足利用液氮对零部件、元器件进行深冷处理的用户，具有口径较大、易于操作等优点。

Tianchi YDS series laboratory liquid nitrogen tank is made of special aviation aluminum material. It has the advantages of low liquid nitrogen volatilization rate, light weight, less space occupation, and efficient storage of large-capacity samples, which can meet the needs of laboratory professionals. different needs of people. All models can be equipped with freezer racks and PC freezer boxes to ensure convenient sample storage. At the same time, this series of products also meet the needs of users who use liquid nitrogen to cryogenically treat parts and components, and have the advantages of large diameter and easy operation.

产品特点 Features

- | | |
|-----------------------|---|
| 1、大口径设计便于样品取放； | 1. Large diameter design is easy to take and place samples. |
| 2、大容量低液氮消耗量，储存样品稳定放心； | 2. Large capacity low liquid nitrogen consumption, safe storage. |
| 3、高强度轻质量的铝制结构设计； | 3. High strength and light weight aluminum structure design. |
| 4、高强度颈管设计减少了液氮损失； | 4. High-strength neck tube design reduces liquid nitrogen loss. |
| 5、多层绝热真空设计减少热辐射； | 5. Multi-layer adiabatic vacuum design reduces thermal radiation. |
| 6、可配置智能监控系统，实现远程监控； | 6. Configurable intelligent monitoring system, remote monitoring. |
| 7、可配安全锁扣，为样品提供安全保障； | 7. It can be equipped with safety lock to provide security. |
| 8、5年的真空质量保证； | 8. 5 years vacuum quality guarantee. |
| 9、产品CE认证。 | 9. Product CE certification. |

型号	YDS-10-125	YDS-15-125	YDS-20-125	YDS-30-125	YDS-35-125	YDS-47-127
最大储存容量						
方提桶数量	1	1	1	6	6	6
2.0 ml冻存管(100格)	—	—	—	—	—	—
2.0 ml冻存管(25格)	75	75	100	600	750	750
冻存架层数	3	3	4	4	5	5
性能						
容积(L)	10.40	16.20	21.60	31.50	35.20	52.10
静态蒸发率(L/day)	0.43	0.36	0.35	0.33	0.36	0.46
静态液氮保存期(D)	23	42	57	90	97	110
外形尺寸						
口径(mm)	125	125	125	125	125	127
总高(mm)	540	600	640	740	760	790
外径(mm)	305	385	385	440	440	515

型号	YDS-50-125	YDS-65-216	YDS-65T-216	YDS-95-216	YDS-115-216	YDS-120T-216
最大储存容量						
方提桶数量	6	6	4	6	6	4
2.0 ml冻存管(100格)	—	2400	2000	3000	3600	4000
2.0 ml冻存管(25格)	900	—	—	—	—	—
冻存架层数	6	4	5	5	6	10
性能						
容积(L)	52.10	65.2	65.2	95.3	115.5	120.50
静态蒸发率(L/day)	0.46	0.89	0.76	0.91	0.91	0.83
静态液氮保存期(D)	110	73	85	105	127	145
外形尺寸						
口径(mm)	125	216	216	216	216	216
总高(mm)	815	705	800	770	810	1106
外径(mm)	515	680	610	680	680	610

型号	YDS-130-216	YDS-145-216	YDS-160-216	YDS-175-216	YDS-190-216	YDS-210-216
最大储存容量						
方提桶数量	6	6	6	6	6	6
2.0 ml冻存管(100格)	4200	4800	5400	6000	6600	7200
2.0 ml冻存管(25格)	—	—	—	—	—	—
冻存架层数	7	8	9	10	11	12
性能						
容积(L)	130.50	145.50	160.50	175.50	192.50	209.50
静态蒸发率(L/day)	0.91	0.91	0.91	0.87	0.91	0.91
静态液氮保存期(D)	144	160	177	202	210	233
外形尺寸						
口径(mm)	216	216	216	216	216	216
总高(mm)	870	940	990	1045	1110	1170
外径(mm)	680	680	680	680	680	680

畜牧液氮罐系列

Animal Husbandry Series Liquid Nitrogen Tank

产品概述 Product Description

天驰畜牧储存YDS系列产品是一种养殖业专用经济实用型液氮罐，主要针对需要长期静态储存冻精和方便采样工作的用户而设计。该系列选用优质航空铝制造而成，内含多层超强性能的隔热层，实现了液氮的低挥发率，保证了样品的存储安全、轻便和高效。同时，小型液氮罐适用于人工转移保存生物样品的用户，特别是为山区用户使用而设计。具有小巧轻便、易于携带、静态液氮日蒸发率低、经济实用的优点。该系列产品不仅被广泛用于畜牧业冷冻精液、疫苗、细胞、微生物的贮存，并可用于机械制造、电子、冶金、能源等领域。

Tianchi Animal Husbandry Storage YDS series is an economical and practical liquid nitrogen tank for breeding industry, mainly designed for long-term static storage of frozen semen and convenient sampling. This series is made of high-quality aviation aluminum and contains multiple layers of super-strong thermal insulation layers, which realizes low volatilization rate of liquid nitrogen and ensures safe, lightweight and efficient storage of samples. And small liquid nitrogen tanks are suitable for Users who manually transfer and preserve biological samples, especially designed for mountain users. It has the advantages of small size and light weight, easy to carry, low daily evaporation rate of static liquid nitrogen, economical and practical. This series of products are not only widely used in the storage of frozen semen, vaccines, cells and microorganisms in animal husbandry, but also in machinery manufacturing, electronics, metallurgy, energy and other fields.

产品参数 Product Parameter

型号	Model	YDS-2	YDS-3	YDS-6	YDS-10	YDS-10-80	YDS-16	YDS-16-80 ¹⁰ 精
容积(L)	Capacity	2.20	3.10	6.40	10.40	10.40	17.40	17.40
口径(mm)	Caliber	35	50	50	50	80	50	80
外径(mm)	O.D	180	225	283	304	304	441	441
高度(mm)	Height	420	465	520	575	575	525	535
静态液氮蒸发量(L/d)	Static evaporation rate	0.08	0.12	0.12	0.12	0.21	0.18	0.20
静态液氮保存期(D)	Static retention period	23	26	52	86	48	88	80
可选提桶样本储存容量								
提桶数量(ea)	Canister Number	3	6	6	6	6	9	
提桶直径(mm)	Canister Diameter	25	36	36	60	36	36	
提桶高度(mm)	Canister Height	120	120	120	120	120	120	
细管容量-单层0.5ml	Straw 0.5ml Single Layer	90	792	792	2244	792	1188	
细管容量-单层0.25ml	Straw 0.25ml Single Layer	204	1788	1788	5022	1788	2682	
细管容量-双层0.5ml	Straw 0.5ml Double Layer	/	/	/	/	/	/	
细管容量-双层0.25ml	Straw 0.25ml Double Layer	/	/	/	/	/	/	



产品特点 Features

- | | |
|----------------------|--|
| 1、欧盟CE认证; | 1.CE certification. |
| 2、五年真空质保; | 2.Five-year vacuum warranty. |
| 3、编号索引提筒位置; | 3.Large capacity straw storage. |
| 4、大容量冻精细管储存; | 4.Number Index Lift Position. |
| 5、不同的口径选择,方便取放; | 5.Different tank diameter options for easy pick and place. |
| 6、高真空多层绝热设计,超低蒸发损失; | 6.High vacuum design and ultra-low liquid nitrogen loss rate. |
| 7、配有保护套,防止产品在使用中的磕碰; | 7.Protective cover to prevent the product from bumping in use. |
| 8、配安全锁盖结构,防止他人擅自开启。 | 8.Safety lock cover to prevent unauthorized opening. |

YDS-30	YDS-35	YDS-30-80	YDS-35-80	YDS-30-125	YDS-35-125	YDS-47-127 ¹⁰ 精
31.50	35.20	31.50	35.20	31.50	35.20	52.10
50	50	80	80	125	125	127
440	440	440	440	440	440	516
715	760	715	760	740	760	790
0.12	0.12	0.20	0.22	0.33	0.36	0.46
254	286	147	159	90	97	110
可选提桶样本储存容量						
6		6		6		10
36	36	36	36	60	60	36
120	276	120	276	120	276	120
792	/	792	/	2244	/	792
1788	/	1788	/	5022	/	1788
/	1284	/	1284	/	3624	/
/	2832	/	2832	/	8460	/

航空型液氮罐系列

Dry Shipper Liquid Nitrogen Tank



产品概述 Product Description

航空运输系列适用于深低温环境下（气相储存,温度低于-190℃）运输样本,可避免运输过程中液氮释放的危险,尤其适用于飞机等短时间航空运输。内部有液氮吸附体,可吸收和保存液氮,即使容器倾倒也不会有液氮溢出;还有特殊的不锈钢网筛分割储存空间和液氮吸收体,可避免液氮吸收体材质混入冻存管内。主要适用于实验室用户和少量样本短时间运输的用户需求。

The dry shipper liquid nitrogen tank series is suitable for transporting samples in a deep and low temperature environment (gas phase storage, temperature below -190 °C), which can avoid the danger of liquid nitrogen release during transportation, especially suitable for short-term air transportation such as aircraft. There is a liquid nitrogen absorber inside, which can absorb and store liquid nitrogen. Even if the container is dumped, there will be no overflow of liquid nitrogen; there is also a special stainless steel mesh screen to divide the storage space and the liquid nitrogen absorber, which can prevent the liquid nitrogen absorber material from being mixed into the freezer. in the depository. It is mainly suitable for laboratory users and users who need a small amount of samples to be transported in a short time.

产品特点 Features

- | | |
|------------------------|--|
| 1、-150℃气相低温运输储存; | 1. -150℃ gas phase low temperature transport storage. |
| 2、快速液氮吸附设计,防止液氮溢出; | 2. Rapid liquid nitrogen adsorption design. |
| 3、高强度轻量化铝制结构,经久耐用; | 3. High strength and lightweight aluminum structure. |
| 4、不锈钢网分割设计,避免液氮混入样品中; | 4. Stainless steel mesh segmentation design. |
| 5、5年的真空质量保证; | 5. 5-year vacuum quality assurance. |
| 6、可配智能监控系统,实时查看样品储存环境; | 6. Can be equipped with intelligent monitoring system. |
| 7、产品CE认证; | 7. Product CE certification. |
| 8、可配安全锁扣,为样品提供安全保障。 | 8. Can be equipped with a safety lock buckle. |

产品参数 Product Parameter

型号	Model	单位Unit	YDH-2-35	YDH-3
有效容积	Volume	L	2.00	3
液氮吸附	Liquid nitrogen adsorption	L	1	1.3
静态蒸发率	Static evaporation rate	L/d	0.1	0.15
工作天数	Working days	Day	9	9
提桶尺寸	Bucket size	mm	φ25*120	φ47*200
2.0ml冻存管数量	Number of 2.0ml cryotubes	ea	N/A	N/A
25格冻存盒	25 cryovials	ea	N/A	N/A
100格冻存盒	100 cryovials	ea	N/A	N/A
50ml血袋数量	Number of 50ml blood bags	ea	N/A	N/A
250ml血袋数量	250ml blood bags	ea	N/A	N/A
罐口尺寸	Sleeve size	mm	35	50
总高	Total height	mm	410	470
外径	Outer diameter	mm	180	224
空重	Empty weight	kg	2.7	3.8

YDH-4-80	YDH-6-80	YDH-10-125	YDH-15-216	YDH-25-216
4	6	10	15	25
1.8	2.4	6	7	10
0.19	0.21	0.4	0.89	0.89
9	11	15	7	11
φ76*276	φ76*200	81*85*225	139*141*168	139*141*280
N/A	N/A	100	300	500
N/A	N/A	4	N/A	N/A
N/A	N/A	N/A	3	5
N/A	N/A	6	N/A	11
N/A	N/A	N/A	N/A	11
80	80	125	216	216
519	510	595	585	665
224	283	304	385	375
5.5	6.1	9.0	12.7	12.5

自增压液氮罐系列

Self-Pressurized Liquid Nitrogen Tank



产品参数 Product Parameter

型号	Model	单位Unit	YDZ-15	YDZ-30
几何容积	Geometric volume	L	16.5	33
有效容积	Effective volume	L	15	30
罐体外径	Outer diameter of the tank	mm	377	404
高度	Height	mm	830	850
空重	Empty weight	kg	24	42
静态液氮日蒸发率	Static daily evaporation rate	%	7	3
标准工作压力	Standard working pressure	Mpa	0.05	0.05
最高工作压力	Maximum working pressure	Mpa	0.09	0.09
输液量	Infusion volume	L/min	>2 L/Min	≥5 L/Min
安全阀开启压力	Open pressure of safety valve	Mpa	0.099	0.099

产品概述 Product Description

天驰 YDZ 系列自增压式液氮罐由优质不锈钢制造而成，配有自升压系统，能自身产生内压力连续排液，可选配监控终端和监控软件，可实现对液位、压力等数据的远程传输，也可手动远程增压和控制补液。目前广泛用于深冷、畜牧业、医药、半导体、食品、低温化工、航空航天等领域。

Tianchi YDZ series self-pressurizing liquid nitrogen tank is made of high-quality stainless steel. It is equipped with a self-boosting system, which can generate internal pressure by itself and continuously discharge liquid. Remote transmission of data, and it can be manually pressurized and controlled remotely. At present, it is widely used in cryogenic, animal husbandry, medicine, semiconductor, food, low temperature chemical industry, aerospace and other fields.

产品特点 Features

- 1、产品100%经低温严格测试；
- 2、采用优质304耐低温专用不锈钢；
- 3、配有双安全阀，双重安全保护措施；
- 4、独特抽空技术，确保极低的蒸发损失率；
- 5、带稳压系统装置，保证液体流速平稳；
- 6、高承载能力的移动脚轮，移动快捷方便；
- 7、可配低温电磁阀，实现全自动补液功能。

1. 100% of the products are strictly tested at low temperature.
2. Made of high-quality 304 stainless steel for low temperature resistance.
3. Equipped with double safety automatic control valve, with double safety protection measures.
4. Unique vacuuming technology ensures extremely low evaporation loss rate.
5. Equipped with a voltage stabilizer system to ensure a stable liquid flow rate.
6. High load-bearing casters make movement quick and easy.
7. Solenoid valve is optional, realize automatic fluid replacement.

YDZ-50	YDZ-100	YDZ-150	YDZ-200	YDZ-230	YDZ-300	YDZ-500
55	110	165	220	250	330	550
50	100	150	200	230	300	500
455	556	656	656	656	806	958
960	1100	1260	1300	1400	1410	1500
50	68	110	125	140	205	265
2	1.2	1.1	1	1	0.8	0.8
0.05	0.05	0.05	0.05	0.05	0.05	0.05
0.09	0.09	0.09	0.09	0.09	0.09	0.09
≥5 L/Min	≥5 L/Min	≥10 L/Min	≥10 L/Min	≥10 L/Min	≥15 L/Min	≥15 L/Min
0.099	0.099	0.099	0.099	0.099	0.099	0.099

注：表中是立式的参数，还可做成卧式“W”的，除表中已有的规格外，可根据客户需求的技术要求参数定做各类的低温设备

小型智能气液相液氮罐系列

Gas-Phase Liquid Nitrogen Tank



产品概述 Product Description

小型气相液氮罐实现了实时温度监控、液位监控、自动补液、远程监控报警以及监控数据自动备份储存。基于电容式液位传感器，可以轻松自动控制液位实现罐体顶部-190℃的气相存储，彻底解决了电子信息技术在-196℃低温环境下应用的技术难题。将先进的液氮罐生产制造技术和智能监控技术完美结合，产品重量轻、占地小，容量大，样本存取高效，可实时监控液氮罐的运行状态，一旦出现问题及时报警，确保样本储存安全。主要适用于生物医疗和样本库等用户。

The small gas-phase liquid nitrogen tank realizes real-time temperature monitoring, liquid level monitoring, automatic replenishment, remote monitoring and alarm, and automatic backup and storage of monitoring data. Based on the capacitive liquid level sensor, the liquid level can be easily and automatically controlled to achieve the gas phase storage at -190℃ at the top of the tank, completely solving the technical problems of electronic information technology application in the low-temperature environment of -196℃. The perfect combination of advanced liquid nitrogen tank manufacturing technology and intelligent monitoring technology, light weight, small footprint, large capacity, efficient sample access, real-time monitoring of the operating status of liquid nitrogen tank, once there is a problem alarm, to ensure the safety of sample storage. It is mainly suitable for biomedical and sample bank users.

型号	Model	Cryobank 2400	Cryobank 3000	Cryobank 3600	Cryobank 4200
最大储存容量/Maximum storage capacity					
方提桶数量	Qty racks	6/7	6/7	6/7	6/7
2.0 ml冻存管数量	Qty 2.0ml tube	2400/2800	3000/3500	3600/4200	4200/4900
层数	Layers	4	5	6	7
性能/Performance					
液氮容积 (L)	Volume	65.20	95.30	115.50	130.50
静态蒸发率 (L/d)	Static evaporation rate	1.2	1.2	1.2	1.5
外形尺寸/Dimensions					
口径 (mm)	Caliber	216	216	216	216
总高 (mm)	Height	785	840	905	832
外径 (mm)	Outer diameter	678	678	678	678

产品特点 Features

- 1、实时液氮液位及温度监控功能；
- 2、远程监控和通信功能；
- 3、自动液氮灌注系统,安全可靠；
- 4、兼容气相和液相储存模式；
- 5、屏幕保护功能,延长使用寿命；
- 6、远程报警功能(语音/短信/微信/邮件等)；
- 7、热气旁通设计,减少内部温度波动；
- 8、卓越的内部温度均匀性和稳定性；
- 9、液氮消耗实时显示；
- 10、现场声光报警功能；
- 11、具有除雾功能,方便样本查看；
- 12、智能本地及云端数据备份及导出。

1. Real-time liquid nitrogen level and temperature monitoring.
2. Remote monitoring and communication functions.
3. Automatic liquid nitrogen injection system, safe and reliable.
4. Compatible with gas and liquid storage modes.
5. Screen saver to extend service life.
6. Remote alarm function (voice/SMS/wechat/email, etc.).
7. Hot gas bypass design, reduce internal temperature fluctuations.
8. Excellent internal temperature uniformity and stability.
9. Real-time display of liquid nitrogen consumption.
10. On-site sound and light alarm function.
11. With fog removal function, convenient sample view.
12. Intelligent local and cloud data backup and export.



Cryobank 4800	Cryobank 5400	Cryobank 6000	Cryobank 6600	Cryobank 7200
最大储存容量/Maximum storage capacity				
6/7	6/7	6/7	6/7	6/7
4800/5600	5400/6300	6000/7000	6600/7700	7200/8400
8	9	10	11	12
性能/Performance				
145.50	160.50	175.50	192.50	209.50
1.5	1.5	1.5	1.8	1.8
外形尺寸/Dimensions				
216	216	216	216	216
1040	944	1090	1060	1185
678	678	678	678	678

生物样本库液氮罐系列

Biobank Tanks

产品概述 Product Description

天驰生物样本库YDD系列液氮罐主要为用户
提供全自动、安全可靠的深低温液氮储存系统，其
口部采用偏口结构，容量大，适用于大批量生物样
本的长期静态保存。采用高真空多层绝热、电子控
温和液氮分散等先进技术，使智能降温、恒温过程
均匀稳定。可提供气相和液相两种储存方式，特别
适用于干细胞、血浆、精液、胚胎、各类组织器官等
实验样本的长期超低温保存。

Biobank Series provide with automatic,
secure and reliable cryogenic liquid nitrogen
freezing systems. Its mouth adopts a partial
mouth structure and has a large capacity, which
is suitable for long-term static storage of large quantities of biological products, and has the advantages of large storage capacity of biological products, safe, reliable, and easy operation. It adopts advanced technologies such as high vacuum multi-layer insulation, electronic temperature control and liquid nitrogen dispersion, so that the intelligent cooling and constant temperature process are uniform and stable. It can provide two methods of immersion storage and gas phase storage, especially suitable for long-term ultra-low temperature preservation of experimental samples such as stem cells, plasma, semen, embryos, and various tissues and organs.



高密度储存/High density storage

与同类产品相比，占地面积小，储存样品多，即可节省空间，又可降低单位样本储存成本；
Compared with similar products, it occupies a small area and stores more samples, which can save space and reduce the storage cost of unit samples;



卓越的温度均匀性/Excellent temperature uniformity

真空隔热不锈钢箱体结构，真空覆盖率高，确保极佳的绝热及保温性能；
Vacuum insulated stainless steel box structure, high vacuum coverage, to ensure excellent thermal insulation and thermal insulation performance;



稳定的开盖温度/Stable opening temperature

创新的箱盖和颈部偏移的小开口优良设计，可大大降低液氮挥发率。即使在长时间开盖情况下，箱体内部依然可以保持温度稳定，48小时内维持箱体温度不高于-150°C；
The innovative box cover and the excellent design of the small opening with offset neck can greatly reduce the evaporation rate of liquid nitrogen. Even when the lid is opened for a long time, the temperature inside the box can still be kept stable, and the temperature of the box can be maintained not higher than -150 °C within 48 hours;



先进的温度监控系统/Advanced temperature monitoring system

基于微处理器和上下双铂电阻温度探头的监控系统可实时显示箱体内的最高和最低温度，精度为±1°C。用户可自行设置报警点，具有报警静音选项；
The monitoring system based on microprocessor and upper and lower double platinum resistance temperature probes can display the highest and lowest temperature in the box in real time. The temperature is ±1°C. The user can set the alarm point by himself, with the option of alarm mute;



自动灌注液氮及液位监控系统/Automatic perfusion liquid nitrogen and liquid level monitoring system

基于差压式传感器和液位监控系统实时显示液面高度，确保液氮自动灌注过程安全可靠。10寸液晶屏可显示：顶部温度、底部温度、液位高度及运行状态等参数；
Based on the differential pressure sensor and liquid level monitoring system, the liquid level is displayed in real time to ensure the safety and reliability of the automatic filling process of liquid nitrogen. The 10-inch LCD screen can display parameters such as top temperature, bottom temperature, liquid level and operating status;



热气旁路/Hot gas bypass

热气旁路可在液氮注入前，先排除管道中的室温氮气，确保只有超低温液氮注入罐中，避免了加液过程中液氮罐发生温度波动，影响样本安全，同时也减少了额外的液氮消耗；
The hot gas bypass can remove the room temperature nitrogen in the pipeline before the liquid nitrogen is injected to ensure that only ultra-low temperature liquid nitrogen is injected into the tank to avoid. In order to avoid the temperature fluctuation of the liquid nitrogen tank during the liquid addition process, the safety of the sample is affected, and the additional liquid nitrogen consumption is also reduced;



多项人性化设计/A number of humanized designs

不锈钢辅助工作台，可用于冻存架的暂时放置，加快样品取放速度；一体式折叠台阶使操作高度降低，取放方便省力。内部旋转托盘备用开口方便寻找不慎掉落的样品；
Stainless steel auxiliary table, which can be used for temporary placement of freezer racks to speed up sample access; integrated folding steps make operation. The height is reduced, and it is convenient and labor-saving to pick and place. Internal swivel tray with alternate opening for easy finding of accidentally dropped samples.

型号	YDD-370-320P	YDD-460-320P	YDD-550-445P	YDD-800-445P
最大储存容量				
1.2&2.0ml冻存管	16800	21000	28000	39200
大支架数量(100格)	12	12	24	24
小支架数量(25格)	8	8	16	16
方提桶层数	12	15	10	14
性能 罐体参数				
容积 (L)	370	460	588	800
平台以下液氮容积 (L)	55	55	125	133
罐口直径 (mm)	320	320	445	445
内部有效高度 (mm)	708	914	590	840
总体高度 (mm)	1400	1600	1400	1650
外径 (mm)	820	820	1090	1090
空重 (kg)	211.5	264	310	394.2
满重 (kg)	513	638	790	1040
血袋容量/血袋架层数/血袋架数量				
7910S/U (25ml)	1372(7*196)	1764(9*196)	2328(6*388)	3104(8*388)
4R9951 (50ml)	840(7*120)	1080(7*120)	1440(6*240)	1920(8*240)
4R9953 (250ml)	384(4*96)	480(5*96)	552(3*184)	920(5*184)
4R9953 (500ml)	224(4*56)	280(5*56)	372(3*124)	620(5*124)

型号	YDD-800-445R	YDD-850-465P	YDD-1000-465P	YDD-1800-635R
最大储存容量				
1.2&2.0ml冻存管	40600	42900	51000	95250
大支架数量(100格)	26	32	32	60
小支架数量(25格)	12	4	8	14
方提桶层数	14	13	15	15
性能 罐体参数				
容积 (L)	800	890	1031	1854
平台以下液氮容积 (L)	133	165	165	296
罐口直径 (mm)	445	465	465	635
内部有效高度 (mm)	840	765	889	906
总体高度 (mm)	1650	1600	1700	1750
外径 (mm)	1090	1190	1190	1565
空重 (kg)	394.2	400	495	805
满重 (kg)	1040	1112	1319	2270
血袋容量/血袋架层数/血袋架数量				
7910S/U (25ml)	3088(8*386)	3332(7*476)	4284(9*476)	7326(9*814)
4R9951 (50ml)	1856(8*232)	2100(7*300)	2100(7*300)	4446(9*494)
4R9953 (250ml)	880(5*176)	832(4*228)	832(4*228)	1940 (5*388)
4R9953 (500ml)	580(5*116)	624(4*156)	624(4*156)	1320(5*264)

注：1、所有气相储存容器均可作为液相储存使用；2、带R型号托盘为方形排布。

液氮自动转移泵

Liquid Nitrogen Automatic Transfer Pump

产品概述 Product Description

液氮自动转移泵系列是让容器内贮存的液氮少量气化，使容器内盛装的液氮排放出来，达到对其它容器补充液氮的目的，具有操作方便，排液过程中液氮率损失低等优点。

The liquid nitrogen automatic transfer pump series is used to vaporize a small amount of liquid nitrogen stored in the container, so that the liquid nitrogen contained in the container is discharged to achieve the purpose of replenishing liquid nitrogen to other containers. Advantages such as low rate loss.

天驰自动液氮转移泵是集压力测量、控制于一体的高精度智能化转移设备，它具有操作简单、抗震性好、控制精度高、升压快、排液迅速、液氮损耗小、使用寿命长等特点，可以实现低压启动，高压停止的控制功能，控制压力全量程可设定等多种功能。液氮在汽化室内迅速汽化，产生低压 ($\leq 0.08\text{MPa}$)，将液氮从液氮容器内自动排放出来，避免因人工倾倒而损坏液氮容器和大量挥发损耗液氮的弊端，是畜牧、医疗、科研用户实现少量液氮转移的理想设备。

Tianchi automatic liquid nitrogen transfer pump is a high-precision intelligent transfer equipment integrating pressure measurement, control and integration. It has the characteristics of simple operation, good shock resistance, high control accuracy, fast boosting, rapid liquid drainage, small liquid nitrogen loss and long service life. It can realize various functions such as easy start under low pressure, high pressure stop control, and the full range of control pressure can be set. The liquid nitrogen is rapidly vaporized in the vaporization chamber, resulting in a low pressure ($\leq 0.08\text{MPa}$), and the liquid nitrogen is automatically discharged from the liquid nitrogen container. Avoid the disadvantages of damage to the liquid nitrogen container and a large amount of volatilization loss of liquid nitrogen due to manual dumping. It is an ideal equipment for animal husbandry, medical and scientific research users to realize a small amount of liquid nitrogen transfer.



产品型号 Model	适配容器口径 Compatible container diameter (mm)	排液压力 Discharge pressure ($\leq \text{MPa}$)	排液速度 Discharge speed (L/min)
TCLNP-50	50	0.03	3-5
TCLNP-50A	50	0.05	6-8

液氮罐移动小推车

Liquid Nitrogen Tank Mobile Trolley

产品概述 Product Description

可倾倒液氮罐推车

TCQT-A30+采用全不锈钢制造，利用它可以在室内方便地转运液氮生物容器，解决了大容积液氮生物容器转运困难及辅助人工倾倒容器中液氮的目的。具有转运和倾倒液氮容器安全可靠、节省操作者体能的优点。

TCQT-A30+ is made of all stainless steel. It can be used to easily transport liquid nitrogen biological containers indoors, which solves the difficulty of transporting large-volume liquid nitrogen biological containers and the purpose of assisting manual dumping of liquid nitrogen in the container. It has the advantages of safe and reliable transport and dumping of the liquid nitrogen container, and saving the operator's physical energy.



TCQT-A30+ 倾倒液氮罐推车
适用于30~35L

液氮罐移动小推车

主要用于满足客户对大中型液氮容器进行短距离移动的要求而设计，使用时直接将容器放在小车上，便可灵活移动，具有方便省力、安全可靠的特点。

The transportation series is mainly designed to meet the customer's requirements for short-distance movement of medium and large liquid nitrogen containers. When in use, the container can be directly placed on the trolley, and it can be moved flexibly. It is convenient and labor-saving, safe and reliable.



TCMT-A 液氮罐移动小推车



TCMT-X 液氮罐移动小推车



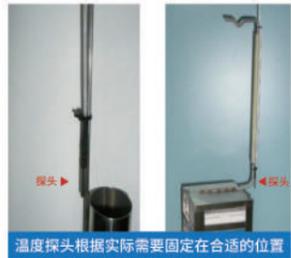
TCMT-A100	TCMT-A30	TCMT-X50	TCMT-X30
适用于65~210L	适用于30~50L	适用于50L	适用于30~35L

液氮液位监测报警器

Liquid Nitrogen Level Monitoring Alarm

液位报警器 Level monitoring alarm

TCLMA-D1是一款液氮液位监测报警器，使用瑞士进口高精度传感器探头，保证了产品的优异测量性能。数据主动上报到云监控平台，无需监控主机、采集器等设备，设置好温度上下限等相关参数当环境温度超出上下限、电量过低、外部供电断开和设备离线时，会立即触发告警，告警通知可发送至邮箱和手机短信。支持网页、手机APP登陆查看及导出实时数据等。



TCLMA-D1 is a liquid nitrogen level monitoring alarm, which uses the high-precision sensor probe imported from Switzerland to ensure the excellent measurement performance of the product. Data is reported to the cloud monitoring platform without monitoring devices such as hosts and collectors. Set the temperature upper and lower limits. When the ambient temperature exceeds the upper and lower limits, the power is too low, the external power supply is disconnected, or the device is offline, the alarm alarm is triggered immediately. Support web page, mobile APP login view and export real-time data, etc.

- 云监控平台，无需监控主机、采集器等设备。
- 全球登陆网页、手机APP可查看数据。
- 离线记录功能，断网正常监测记录数据，联网后自动上报。

- LCD大屏显示设计，大方美观。
- 可松式轧带固定，易于安装。
- 支持短信/语音/邮件等多种报警功能。

智慧瓶塞 SmartCap

智慧瓶塞是专为测量铝制液氮罐液位和温度而研制的产品。适用于50/80/125/216mm口径的液氮罐对液位温度监控的需求，该产品采用超低功耗设计，液晶屏实时显示液位及温度数值，内置高效镍电池可维持设备运行2年左右。采用超低温监控技术及物联网通信技术，实时监测液氮罐内温度及液位并可通过LORA、NB-IOT等多种通讯方式上传至罐联网平台，实现远程查看、报警及数据处理等，充分保障液氮罐样品存储安全。



The smartcap is a product specially developed for measuring the liquid level and temperature of liquid nitrogen tanks. It is suitable for liquid nitrogen tanks with diameters of 50/80/125/216mm. This product adopts an ultra-low power consumption design. The LCD screen displays the liquid level and temperature values in real time. The built-in high-efficiency nickel battery can keep the equipment running for about 2 years. It uses ultra-low temperature monitoring technology and Internet of Things communication technology. It can monitor the temperature and liquid level inside the liquid nitrogen tank in real time and upload the data to the tank network platform through various communication methods such as LORA and NB-IOT, enabling remote viewing, alarm and data processing, etc., fully ensuring the safety of sample storage in the liquid nitrogen tank.

- 一体化设计，即插即用操作更方便。
- 温度液位数据实时显示。
- 高精度液位及温度双重独立测量系统。

- 实时远程报警系统，保障样品安全。
- 短信/语音/邮件/微信等多种报警功能。
- 超低功耗设计无需外接电源。

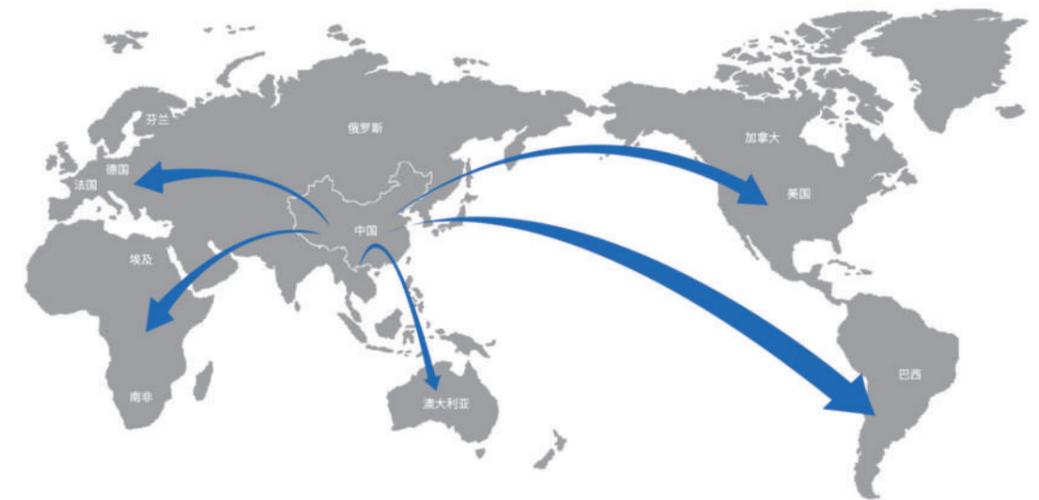
产品图片 Product image		
型号 Model	TCLMA-D1	SmartCap
温度测量范围 Temperature measurement range	-200°C~200°C	-200°C~200°C
液位测量范围 Level measurement range	/	0~643mm
通讯方式 Communication method	Wifi	Lora/Nb-iot
报警方式 Alarm method	短信/电话/邮箱/APP	短信/电话/邮箱/微信(需选配中继器)
适用范围 Scope of Application	适用于所有品牌铝制液氮罐	适用于所有品牌铝制液氮罐(分口径)
供电方式 Power supply method	电池(可充电)	电池(可更换)
安装方式 Installation method	将探头固定在合适位置置于罐内	置换液氮罐瓶塞

注：Lora通讯方式需配数据中继器组网使用

国际市场与合作

International Market and Cooperation

市场流向 Market flow



多年来,公司生产的“天驰”牌液氮生物容器在国内一直保持较高的市场份额，销售地区遍及50多个省、市、自治区。

Over the years, the "Tianchi" brand liquid nitrogen biological container produced by the company has maintained a high market share at home and abroad, and its sales areas have covered more than 50 provinces, municipalities and autonomous regions.

公司瞄准国际市场，积极开展国际贸易合作，先后与东南亚、拉美等国家建立了长期、稳定的经济合作关系，产品先后出口泰国、韩国、越南、伊朗、墨西哥、哥伦比亚、澳大利亚等20多个国家和地区，外贸出口率占公司销售总额的40%以上，一些国外经销商纷纷前来公司考察、调研、洽谈合作。

Aiming at the international market, the company actively carries out international trade cooperation, and has established long-term and stable economic cooperative relations with Southeast Asia, Brazil and other countries. The export rate of foreign trade accounts for more than 40% of the company's total sales. Some foreign dealers have come to the company for inspection, research and cooperation.