

HEBEI RUNFENG  
LOW TEMPERATURE EQUIPMENT CO.LTD



Phone:+86 157 3285 2222  
Email:runfeng@cryogenicchina.com  
Website:www.cryogenicchina.com  
Add: No.1 Zhenggang Road, Matun Industrial Park,  
Raoyang County, Hengshui City, Hebei Province,China



**RUNFENG CONTAINER**  
**USE GAS EFFICIENTLY, DURABLY & SAFELY**



# Enterprise Qualification



## CERTIFICATES

Special Equipment Production License  
American Society of Mechanical Engineers (ASME) License  
EU-CE PED/TPED Certification  
US.DOT  
Russia EAC Certification  
ISO9001:2015 Quality Management System Certification  
High and New Technology Enterprise Certificate

## CERTIFICATES

Hebei Science and Technology Type Small and Medium Enterprise Certificate  
New Patent Certificates Medium-sized Enterprise Certificate  
A Number of New Patent Certificates  
Medical Device Quality Management System Certification  
ISO14001: 2015 ISO45001: 2018  
Dosh Certification



## — ABOUT US —

Hebei Runfeng Low Temperature Equipment Co.,Ltd., as key enterprise of Hengshui Economic Development Zone, has developed into a new high-tech enterprise specializing in the design, manufacturing, R&D and technical services of low-temperature pressure vessels.

The company adopts advanced production equipment at home and abroad, with large hydraulic swing plate rolling machine, Italian automatic CNC four-roll plate rolling machine, automatic CNC longitudinal seam welding machine, automatic CNC circular seam sealing machine, vacuum group, CNC winding machine, electrostatic spraying and other advanced equipment.

Our main products include: cryogenic cylinder/Dewar bottle, Micro-bulk tank, cryogenic storage tank, tank container, semi-trailer, cryogenic liquid pump, air-heated vaporizer, pressure regulator, gasification regulator, other non-standard pressure vessel and the complete equipment and skid for the liquid oxygen, liquid nitrogen, liquid argon, liquid carbon dioxide and other industrial gas project, such as gas supply station, LNG station, vaporizing station, reserve station, peaking station, etc.

The company has the Hebei Provincial Administration of Market Supervision issued by the "People's Republic of special equipment production license", the licensed items include pressure vessel manufacturing (including installation, repair, transformation) (stationary pressure vessels, low-pressure vessel D); obtained ISO9001, ASME certification, CE certification, the National Cryogenic Testing Center Product Patent certification, etc.. Won the certificates of honor of "2022 Hebei Province Quality & Integrity AAA level Enterprise", "Hebei Province High-tech Enterprise", "Hebei Province Professional, Fine, Special & New Technology Enterprise" and etc, we have our own foreign trade export right, passed two integration management system evaluation and got a number of R&D product's patent certificates, and are engaged in the manufacture and installation of medium and low pressure storage tank/vessels according to the second and third categories.

Under the guiding ideology of "Customer First", "Love, Dedication and Law-abiding" as the business purpose, "high standard, high technology and high efficiency" as principle, the company insists on "Quality First, build "Brand Awareness", seek the credibility with quality, striving for market and development with quality, we will establish sincere and stable cooperative relationship with domestic and foreign customers with the best quality, credibility and service, and create brilliant career together!

Hebei Runfeng Low Temperature  
Equipment Co., Ltd

📍 NO.1 Zhenggang Road, Matun Industrial Park  
Raoyang County, Hengshui City  
Hebei Province, China



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## CRYOGENIC CYLINDERS PRODUCTION PROCESS



PLATE CUTTING



ROLLING MACHINE



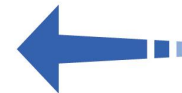
CLEAN



VALVE ASSEMBLY



TEST



VACUUMIZE



INSULATION LAYER



POLISHING



FINISHED PRODUCT



# DEWAR

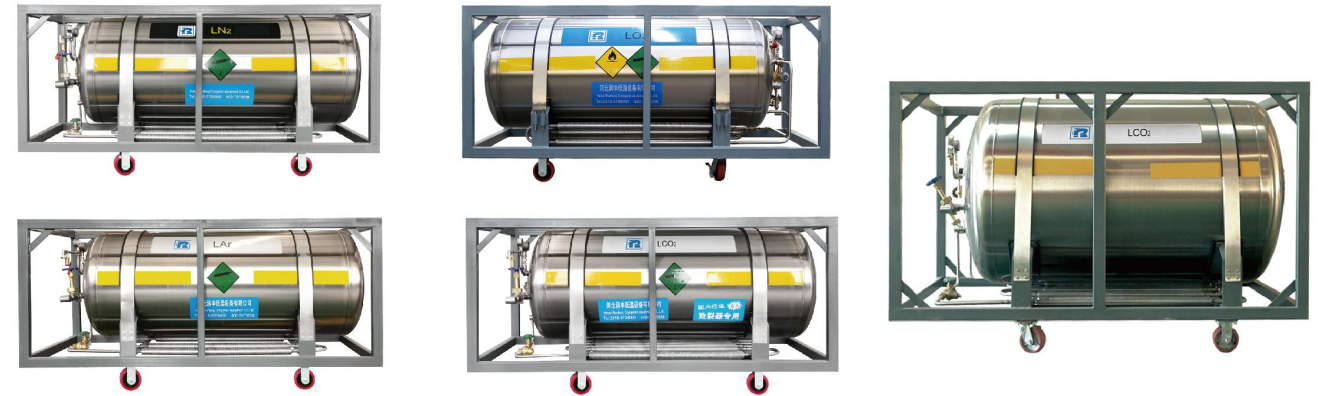
Our cryogenic cylinder(Dewar bottle)is a superinsulation multi-layer movable cryogenic liquid container, which is to stor, transport and use liquid oxygen, liquid nitrogen, liquid argon, liquefied natural gas, liquid carbon dioxide and other cryogenic industry gas. It consists of stainless steel inner and outer vessels, support system, superinsulation multi-layer, built-in vaporizer, valve piping and safety system.

Our product has the characteristics of high loading rate, repeatable filling, easy to use, safety, reliability by adopting the advanced technology. All manufacturing process is carried out the strict QA & QC system. Our cylinders/bottles are a full stainless steel container, clean and hygienic, no filling pollution, no contamination of water, air, rust, gaseous acid & alkali, fluorine plastic in bottled gas, etc, which greatly improves the purity of gas used. It no needs frequent handling and can save a lot of human cost and material resources comparing with steel gas cylinder. It also has the characteristics of long service life, compact structure, small area, centralized control, safety and reliability, easy operation and maintenance, which can be widely used in various fields, such as machinery, shipbuilding, medical and chemical industry, electronics, biology, food, material, energy and scientific research.

## DEWAR BOTTLE



## — PRODUCT PARAMETERS —



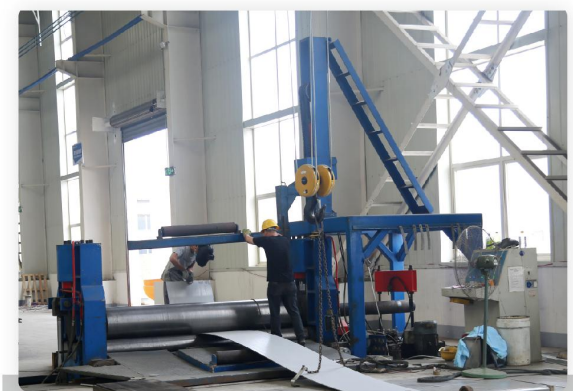
Overall Size and Main Technical Parameters															
Type	Nominal volume (L)	Working pressure (MPa)	Empty weight (Kg)	Maximum theoretical liquid filling capacity (Kg)					Gas cylinder size (mm)	Safety valve (MPa)	Rupture disk (MPa)	Filling weight (Kg) (±2KG)			
				LNG	LO <sup>2</sup>	LN <sup>2</sup>	LAr	LCO <sup>2</sup>				LO <sup>2</sup>	LN <sup>2</sup>	LAr	LCO <sup>2</sup>
DPL Series - Vertical Cylinders	50	2.3	76	19	53	37	65	51	φ516*747	2.62	3.6	/	/	/	/
	80	2.3	85	31	87	62	107	84	φ516*907	2.62	3.6	80	56	98	78
	100	2.3	95	38	120	77	133	105	φ516*1037	2.62	3.6	100	70	123	97
	175	1.37	116	67	190	135	233	183	φ516*1507	1.59	2.4	175	121	213	169
		2.3	133							2.41	3.6				
		2.88	146							3.45	5.17				
		3.45	164							4.14	5.17				
	195	1.37	125	75	212	150	260	204	φ516*1632	1.59	2.4	196	136	239	190
		2.3	145	/						2.41	3.6				
		2.88	158							3.45	5.17				
		3.45	185							4.14	5.17				
	210	1.37	135	81	228	162	280	220	φ516*1717	1.59	2.4	207	144	252	200
		2.3	150	/						2.41	3.6				
		2.88	166							3.45	5.17				
		3.45	191							4.14	5.17				
	230	2.01	180	85	244	170	298	237	φ666*1333	2.41	3.6	/	/	/	/
	240 (small cart)	1.37	185	84	242	168	295	234	800*800*1248	1.59	2.41	/	/	/	/
		2.3	213	/						2.62	3.6				
		3.17	240							3.45	5.17				
	410	1.37	325	157	/	/	/	/	890*870*1770	1.59	/	413	287	504	400
450	1.37		/	488	345	599	471	890*870*1850	1.59	/	453	315	553	439	
	2.3	370							2.41	3.6					
	3.17	425							3.45	5.17					
500	1.37	360	192	542	384	665	523	890*870*2000	1.59	/	486	338	593	471	
	2.3	407	/						2.41	3.6					
	3.17	448							3.45	5.17					
1000	2.3	1033	/	/	454	904	891	φ1200*2182	2.6	3.6	1009	702	1231	978	
	3.45				297	764	828		4.0	5.4					
DPW Series - Horizontal Cylinders	410	1.59	342	158	/	/	/	/	1850*820*1020	1.9	2.4	413	287	504	400
	499	1.59	353	192	541	383	664	522	2100*820*1020	1.9	2.4	503	350	614	488
		2.1	406	2.86						3.6					
		2.5	420	2.86						3.6					
		3.45	510	4.15						5.17					
	1000	1.59	585	/	1664	1330	1882	/	2100*1172*1400	1.9	2.4	977	679	1192	947
Note: The maximum filling capacity is calculated based on the boiling point of the liquid under normal atmospheric pressure. The actual filling capacity is affected by the liquid temperature and pressure inside the container, which is about 95% of the maximum theoretical filling capacity, and about 90% for natural gas.															



## TANK PRODUCTION PROCESS



PLATE CUTTING



ROLLING MACHINE



LONGITUDINAL SEAM WELDING



HEAD WELDING



INSULATION LAYER



CLEAN



PIPE WELDING



CIRCUMFERENTIAL WELD



EXTERNAL PIPING



VACUUMIZE



PRE-COOLING AND FILLING TEST



FINISHED PRODUCT



CRYOGENIC STORAGE TANK

—FOR OXYGEN, NITROGEN AND ARGON MEDIUM—

Cryogenic liquid storage tank is the main products of our company, which is designed, manufactured, inspected and accepted in strict accordance with GB, ASME, EAC, CE, and other standards.

This series of cryogenic storage tank is superinsulation multi-layer storage tank, the inner vessel material is stain-less steel SS30408 and the outer vessel material is Q345R or SS30408, which can also be customized as required. This series of products are mostly used for liquid oxygen, liquid nitrogen and liquid argon storage. The product is widely used in gas industry, hospitals, metal refining, aerospace, photovoltaic and other users with high gas consumption and is the best solution to realize centralized gas supply.



—PRODUCT PARAMETERS—

Horizontal Cryogenic Storage Tank Technical Sheet								
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)			Tare Weight (kg)	Inner vessel	Outer vessel	Overall Dimensions (mm)
		LO2	LN2	LAR				
3	≤0.80	3237	2300	4004	1672	SS30408	SS30408/Q345R	3350*1920*1700
	≤1.60				1673			
	≤2.30				1812			
	≤3.45				2097			
	≤0.80				2503			
5	≤1.60	4925	3499	6091	2595	SS30408	SS30408/Q345R	3570*2440*2112
	≤2.30				2815			
	≤3.45				2944			
	≤0.80				4112			
	≤1.60				4203			
10	≤2.30	10818	7686	13380	4679	SS30408	SS30408/Q345R	6080*2362*2200
	≤3.45				5634			
	≤0.80				5238			
	≤1.60				5329			
	≤2.30				6182			
20	≤3.45	21660	15390	26790	7894	SS30408	SS30408/Q345R	10495*2362*2200
	≤0.80				9385			
	≤1.60				11921			
	≤2.30				12936			
	≤0.80				16396			
30	≤1.60	32490	23085	40185	19587	SS30408	SS30408/Q345R	12300*3000*2600
	≤2.30				18171			
	≤3.45				21546			
	≤0.80				26626			
	≤1.59				28460			
50	≤0.80	54150	38475	66975	32300	SS30408	SS30408/Q345R	11600*3500*3200
	≤1.60				34551			
	≤2.30							
	≤3.45							
	≤0.80							
60	≤1.59	64980	46170	80370		SS30408	SS30408/Q345R	14300*3500*3200
	≤2.30							
	≤3.45							
	≤0.80							
	≤1.59							
80	≤2.30	87107	61892	107738		SS30408	SS30408/Q345R	133830*4000*3700
	≤3.45							
	≤0.80							
	≤1.59							
	≤2.30							
100	≤3.45	104500	76950	133950		SS30408	SS30408/Q345R	16600*4000*3700
	≤0.80							
	≤1.60							
	≤2.30							
	≤3.45							
Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.								

Vertical Storage Tank Technical Sheet								
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)			Tare Weight (kg)	Inner vessel	Outer vessel	Overall Dimensions (mm)
		LO2	LN2	LAR				
1	≤0.80	1083	769	1339	825	SS30408	SS30408/Q345R	2400*1413*1301
	≤1.60				825			
	≤2.30				825			
	≤3.45				940			
2	≤0.80	2166	1539	1679	1135	SS30408	SS30408/Q345R	2851*1786*1750
	≤1.60				1135			
	≤2.30				1248			
	≤3.45				1433			
3	≤0.80	3237	2300	4004	1590	SS30408	SS30408/Q345R	3592*1785*1750
	≤1.60				1590			
	≤2.30				1850			
	≤3.45				2025			
5	≤0.80	5118	3636	6330	2334	SS30408	SS30408/Q345R	3690*1870*2152
	≤1.60				2334			
	≤2.30				2425			
	≤3.45				2867			
8	≤0.80	8664	6156	10716	3755	SS30408	SS30408/Q345R	5130*1950*2196
	≤1.60				3848			
	≤2.30				4187			
	≤3.45				4867			
10	≤0.80	10818	7686	13380	4012	SS30408	SS30408/Q345R	5800*1950*2196
	≤1.60				4112			
	≤2.30				4527			
	≤3.45				5360			
15	≤0.80	16245	11542	19978	6060	SS30408	SS30408/Q345R	8320*2196*2227
	≤1.60				6451			
	≤2.30				7055			
	≤3.45				8267			
20	≤0.80	21181	15050	26197	7441	SS30408	SS30408/Q345R	10320*2196*2227
	≤1.60				7921			
	≤2.30				8696			
	≤3.45				10251			
25	≤0.80	27075	19237	33487	11940	SS30408	SS30408/Q345R	11675*2501*2541
	≤1.60				13340			
	≤2.30				14275			
	≤3.45				16150			
30	≤0.80	32490	23085	40185	10395	SS30408	SS30408/Q345R	11400*2675*2753
	≤1.60				11920			
	≤2.30				12940			
	≤3.30							
40	≤0.80	43320	30780	53580	13578	SS30408	SS30408/Q345R	14560*2675*2749
	≤1.59				15637			
	≤2.10							
	≤3.30							
50	≤0.80	54150	38475	66975	14221	SS30408	SS30408/Q345R	11413*3359*3450
	≤1.60				16860			
	≤2.10							
	≤3.30							
60	≤0.80	64980	46170	80370	16322	SS30408	SS30408/Q345R	13397*3355*3230
	≤1.59				19237			
	≤2.10							
	≤3.30							
80	≤0.80	87107	61892	107738	26218	SS30408	SS30408/Q345R	13750*3673*3750
	≤1.59				29903			
	≤2.10							
	≤3.30							
100	≤0.80	108300	76950	133950	31043	SS30408	SS30408/Q345R	16483*3673*3750
	≤1.59				35577			
	≤2.10							
	≤3.30							
Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.								



— CARBON DIOXIDE STORAGE TANK—

Our cryogenic LCO2 storage tank, in vertical and horizontal type,with internal and outer vessel double-layer, is one type of superinsulation multi-layer storage tank. The inner vessel material adopts low-temperature plate 16MnDR/SS30408 and the outer vessel material is Q345R or SS30408, which can be customized as required. The surface anti-corrosive coating is processed by sand blasting, purging and spraying these processes and adopts two-component fast curing liquid coatings. The series products are mainly used for storage of cryogenic liquid carbon dioxide. This product is widely used in gas industry, anti-corrosion, refrigeration, food and beverage, welding, metal refining and other users with high gas consumption, and is the best solution to realize centralized gas supply., and is the best product to realize centralized gas supply.



— PRODUCT PARAMETERS—

LCO2 Cryogenic Storage Tank Technical Sheet							
Geometric Volume	Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)	Tare Weight (kg)	Inner vessel	Outer vessel	Overall Dimensions (mm)
Vertical	2	≤2.16	1337	1087	16MnDR/SS30408	SS30408/Q345R	2851*1750*1650
	3	≤2.16	3357	2058	16MnDR/SS30408	SS30408/Q345R	3592*1750*1650
	5	≤2.16	5285	3037	16MnDR/SS30408	SS30408/Q345R	3690*1870*2152
	8	≤2.16	8985	5095	16MnDR/SS30408	SS30408/Q345R	5130*2196*2217
	10	≤2.16	10581	5265	16MnDR/SS30408	SS30408/Q345R	5975*2135*2077
	15	≤2.16	15888	7888	16MnDR/SS30408	SS30408/Q345R	8202*2196*2150
	20	≤2.16	20716	10833	16MnDR/SS30408	SS30408/Q345R	10320*2196*2150
	25	≤2.16	26481	13190	16MnDR/SS30408	SS30408/Q345R	11498*2467*2313
	30	≤2.16	31817	16037	16MnDR/SS30408	SS30408/Q345R	11400*2753*2567
	40	≤2.16	50844	29695	16MnDR/SS30408	SS30408/Q345R	14560*2749*2555
	50	≤2.16	52962	24455	16MnDR/SS30408	SS30408/Q345R	11600*3255*3130
	60	≤2.16	63555	26766	16MnDR/SS30408	SS30408/Q345R	14357*3255*3060
Horizontal	3	≤2.16	3170	2258	16MnDR/SS30408	SS30408/Q345R	3559*1920*1700
	5	≤2.16	5285	3190	16MnDR/SS30408	SS30408/Q345R	3903*2199*2000
	10	≤2.16	10581	5485	16MnDR/SS30408	SS30408/Q345R	6191*2339*2100
	20	≤2.16	10581	9385	16MnDR/SS30408	SS30408/Q345R	10406*2439*2200
	30	≤2.16	31817	16037	16MnDR/SS30408	SS30408/Q345R	11350*3000*2600
	50	≤2.16	50844	24455	16MnDR/SS30408	SS30408/Q345R	11580*3500*3200

Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.

— LNG STORAGE TANK—

This series of cryogenic storage tank is superinsulation multi-layer storage tank, the inner vessel material is stainless steel SS30408, the outer vessel material is Q345R or SS30408, can also be customized according to customer requirements. It is mainly used for storing NG in a liquid state. The product is widely used in urban peak gas supply, the main source of pipeline gas supply, automobile refueling fuel, chemical industry, heating and other industries, and has been favored and praised by customers for many years. praised by customers for many years.



— PRODUCT PARAMETERS—

LNG Cryogenic Storage Tank Technical Sheet							
Geometric Volume	Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)	Tare Weight (kg)	Inner vessel	Outer vessel	Overall Dimensions (mm)
Vertical	10	≤0.80	3829	4012	SS30408	SS30408/Q345R	5800*2112*2196
		≤1.60		4112			
		≤2.30		4527			
		≤3.45		5360			
	20	≤0.80	7916	7441	SS30408	SS30408/Q345R	10320*2196*2196
		≤1.60		7921			
		≤2.30		8696			
		≤3.45		10251			
	50	≤0.80	20235	14221	SS30408	SS30408/Q345R	5975*2135*2077
		≤1.60		16860			
Horizontal	10	≤0.80	4043	4112	SS30408	SS30408/Q345R	6080*2362*2200
		≤1.60		4203			
		≤2.30		4679			
		≤3.45		5634			
	20	≤0.80	7915	5238	SS30408	SS30408/Q345R	10495*2362*2200
		≤1.60		5329			
		≤2.30		6182			
		≤3.45		7894			
	50	≤0.80	20235	16396	SS30408	SS30408/Q345R	11200*3200*3500
		≤1.59		19587			

Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.



MICRO BULK STORAGE TANK



Our micro-bulk tank is a combination of small volume storage tank, booster, vaporizer and a piping system into a centralized gas supply unit. As its compact structure and simple and easy installation system, is widely used in the industry of laser processing, electronics, Scientific & Research, chemical, welding, etc. We can provide different solutions of skid based on different process requirements to achieve single, double or multiple gas mixing requirements on site.

Comparing with the traditional high-pressure steel gas cylinder, this product can highly reduces the number of replacements, the pollution and labor costs. This product can be filled by common transportation tanker/semi-trailer, which is convenient and fast. We can provide users with on-site filling integrated solution and let you enjoy the centralized pipeline gas supply.



—PRODUCT PARAMETERS—

Technical Parameters of Microbulk Portable Tanks											
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)				Tare Weight (kg)			Inner vessel	Outer vessel	Overall Dimensions (mm)
		LO2	LN2	LAR	LNG	LCO2	LO2/LN2/LAR/LNG	LCO2			
1	≤0.80	1083	769	1339	404	/	926	/	SS30408	SS30408/Q345R	2085*1580*1160
	≤1.60					/	926	/			
	≤2.30					/	926	/			
	≤3.45					/	1040	/			
	≤2.16	/	/	/	/	1059	/	1045	16MnDR	SS30408/Q345R	
2	≤0.80	2017	1433	2495	796	/	1398	/	SS30408	SS30408/Q345R	2360*2140*1975
	≤1.60					/	1398	/			
	≤2.30					/	1511	/			
	≤3.45					/	1695	/			
	≤2.16	/	/	/	/	1915	/	2020	16MnDR	SS30408/Q345R	
3	≤0.80	3120	2192	3800	1047	/	1773	/	SS30408	SS30408/Q345R	2560*2338*2143
	≤1.60					/	1810	/			
	≤2.30					/	1993	/			
	≤3.45					/	2246	/			
	≤2.16	/	/	/	/	3166	/	2454	16MnDR	SS30408/Q345R	
5	≤0.80	5403	3839	6645	1917	/	2655	/	SS30408	SS30408/Q345R	3086*2331*2325
	≤1.60					/	2745	/			
	≤2.30					/	2964	/			
	≤3.45					/	3405	/			
	≤2.16	/	/	/	/	5085	/	3527	16MnDR	SS30408/Q345R	
7.5	≤0.80	8105	5759	10025	3035	/	3490	/	SS30408	SS30408/Q345R	3170*2715*2450
	≤1.60					/	3581	/			
	≤2.30					/	3904	/			
	≤3.45					/	4550	/			
	≤2.16	/	/	/	/	7950	/	5065	16MnDR	SS30408/Q345R	
10	≤0.80	10830	7695	13395	3834	/	4431	/	SS30408	SS30408/Q345R	3950*2840*2800
	≤1.60					/	4981	/			
	≤2.30					/	5347	/			
	≤3.45					/	6450	/			
	≤2.16	/	/	/	/	10592	/	6640	16MnDR	SS30408/Q345R	

Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.





## SEMI-TRAILER



Semi-trailer can be used for transporting liquefied natural gas, liquid oxygen, liquid nitrogen, liquid argon, liquid carbon dioxide, etc.

## Product features

- 1.superinsulation multi-layer;
- 2.Light self-weight, large volume, low operating cost;
- 3.Built-in submerged liquid pump, no need pre-cooling, fast liquid discharge speed;
- 4.Integrated with filling function, metering and invoice printing function, and fill liquid to gas cylinders;
5. The tank volume range from 10 m<sup>3</sup> to 60m<sup>3</sup>, can be designed as the size of tractor,trailer or other requirements.which can be designed according to the customer's requirements on the tanker's don't size.

— PRODUCT PARAMETERS —

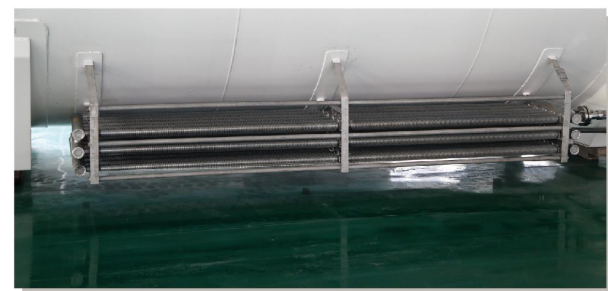
Semi-trailer								
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)					Tare Weight (kg)	Overall Dimensions (mm)
		LO2	LN2	LAR	LNG	LCO2		
17	≤2.2	/	/	/	/	19550	8450	9880*2550*3550
23	≤0.3	/	/	28910	/	/	10675	11550*2500*3350
27	≤0.3	29000	/	/	/	/	10960	12999*2500*3937
28.5	≤2.2	/	/	/	/	27650	12350	12500*2500*3550
37	≤0.3	/	27070	/	/	/	12030	12140*2500*3720
52.6	≤0.60	/	/	/	24200	/	15800	13000*2500*3950
Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.								



# ISO STORAGE TANK

ISO tank containers are especially designed for cryogenic liquids transportation by road or by sea, such as liquefied natural gas (LNG), liquid oxygen, liquid nitrogen, liquid argon, liquefied carbon dioxide, etc. The products can be designed according to ASME, EN, GB, DNV and Australian standards, and can also meet IMDG, ADR, CSC, RID, ISO1496/3, US.DOT, TSG, etc. They are suitable for road, waterway and rail transport containers worldwide.

—40FT—



# ISO STORAGE TANK

— 10FT 20FT —



—PRODUCT PARAMETERS—

ISO Tank								
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)					Tare Weight (kg)	Overall Dimensions (mm)
		LO2	LN2	LAR	LNG	LCO2		
10ft	≤0.80	8260	5856	10105	/	/	4800	2991x2438x2591
20ft	≤1.60	22800	16200	26700	8930	/	9300	6058*2438*2591
	≤2.30					21965		6058*2438*2591
40ft	≤0.80	/	/	/	20500	/	13500	12195*2438*2591

Note: The above technical parameters may be changed without prior notice due to modification and development. If there is any change, please refer to the confirmed drawing.



## VAPORIZER

### —AMBIENT AIR HEATED VAPORIZER—

This series of air heated vaporizer adopts star-shaped aluminum alloy finned tube with high heat transfer efficiency as the main body. Between the pressure pipe and finned tube, it adopts special expansion tube drawing compound technology, which greatly reduces the thermal resistance coefficient and improves the heat transfer efficiency. The star-shaped aluminum alloy finned tubes are connected in a diamond shape by central connecting pieces, which has a solid structure and beautiful appearance; it relies on air convection heating during operation, no need external energy, which is energy saving and environmental protection.



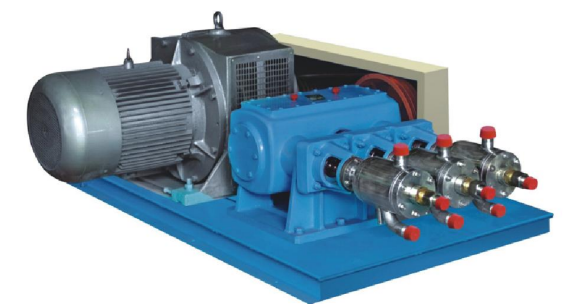
### —PRODUCT PARAMETERS—

Working medium	LO <sub>2</sub> 、LN <sub>2</sub> 、LAr、LCO <sub>2</sub> 、LNG
Working pressure	0.8-100Mpa
Single evaporation set capacity	10-10000Nm <sup>3</sup> /h

Note: more capacity can be combined

## CRYOGENIC PUMPING FACILITIES

This series of reciprocating cryogenic liquid pump is a new generation of cryogenic liquid pump well designed and manufactured on the basis of the introduction and absorption of advanced technology at home and abroad, the pump has the advantages of stable performance, convenient operation and maintenance, short and smooth start time, etc. The pump head adopts superinsulation multi-layer to reduce cold loss of the working medium, and adopts the circulation design so that the pump can be started without pressure relief. The pump is suitable for liquid oxygen, liquid nitrogen, liquid argon, liquid carbon dioxide and other cryogenic industrial gas filling system. The purpose of its work is to fill the cryogenic liquid gas in the storage tank into the cylinder after pressurization and gasification. Its optimized design and careful manufacturing ensures a long time safe and reliable operation.



### —PRODUCT PARAMETERS—

Working pressure	2.2-40MPa
Flow	5L/h-6000L/h
Operation conditions	LCO <sub>2</sub> Filling Station



PRESSURE REGULATING DEVICE

A device can output the required test voltage after adjusted, including various regulators, silicon controlled voltage regulators and electric generator sets, etc.

—SELF-OPERATED REGULATOR—

Self-operated pressure regulator is a group of valves that uses a regulator and a shut-off valve as a bypass to adjust the pressure to the required value. The design includes inlet and outlet flanges, global valves, pressure regulator valves, safety valves, pressure gauges, filters, vent valves, etc. The type of pressure regulator valve and the diameter of the pipeline of the regulating device is according to the required regulated pressure and flow rate, and are suitable for the pressure regulation of oxygen, argon, nitrogen, carbon dioxide, natural gas and other gases.



—PRODUCT PARAMETERS—

Working medium	O2、N2、Ar、CO2、NG
Gas supply capacity	20-20000Nm³/h
Inlet pressure	0.8-30Mpa
Outlet pressure	0.15-0.3MPa

— LNG GASIFICATION AND PRESSURE REGULATOR SKID—

Most of urban pipeline networks use medium pressure transmission (generally 1-4 bar), while the gas used by direct-fired equipment (gas boilers, direct-fired central air conditioning units) is low pressure (generally 50-100mbr). For this factor, our company has developed this special regulator skid for direct-fired equipment to meet the related requirements of gas consumption.

This series of regulator skid is designed to meet the characteristics of industrial gas, such as sudden flow change, quick start/stop, uninterrupted gas supply. Besides design of dual automatic switching, there are the functions of filtering, pressure regulating, metering, etc. The regulator skid also has the characteristics of rapid response and stable outlet pressure and high accuracy of closing under the working conditions of big changes in flow range, which can meet the requirements of industrial and civil direct-fired equipment extremely well.






—PRODUCT PARAMETERS—

Working medium	LNG
Inlet pressure	20-70MPa
Flow	50-10000Nm³h



CARGO LOADING

Specifications	Product	Quantity	Container
40ft Container	Cryogenic Storage Tank	1 (Piece) 25m <sup>3</sup>	
	Cryogenic Storage Tank	2 (Piece) 10m <sup>3</sup>	
	Dewar	18 (Piece) 499+100 (Piece) 175/195/210	
20ft Container	Cryogenic Storage Tank	1 (Piece) 10m <sup>3</sup>	
	Dewar	48 (Piece) 175/195/210	
20ft Open Top Container	Micro-bulk Storage Tank	2 (Piece) 5m <sup>3</sup> (Vertical Loading)	



## - EXHIBITION -



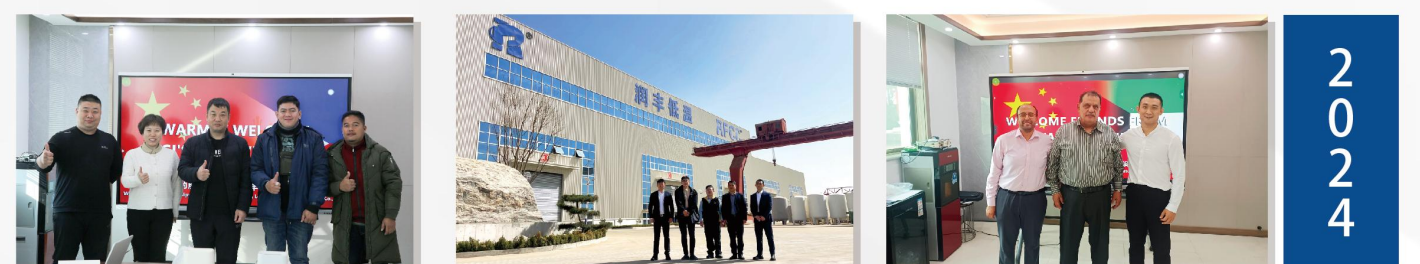
## - VISIT -



## - CUSTOMER VISITS -



## - CUSTOMER VISITS -





## ENTERPRISE COOPERATION SERVICE

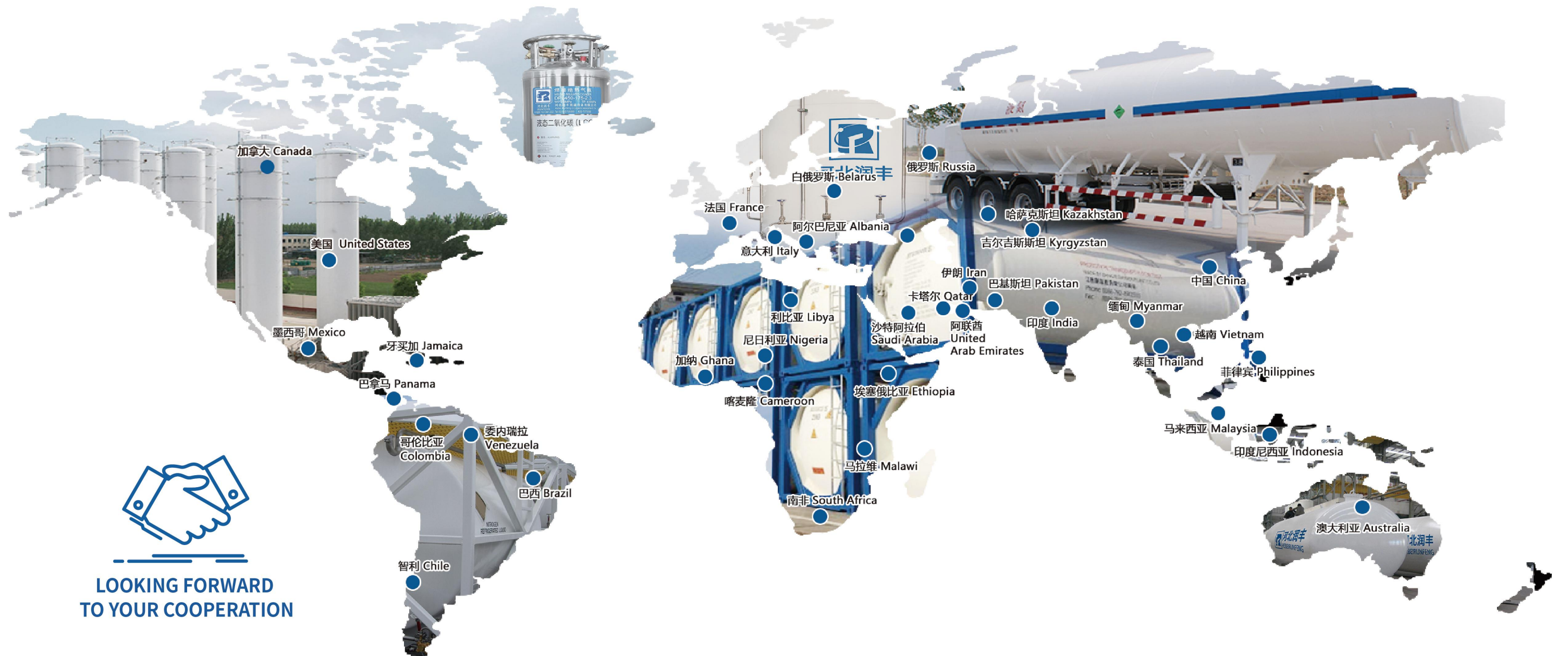
## VARIOUS RANGE OF PRODUCTS

## Dewar Cylinder: 50L--1000L

## Cryogenic Storage Tank: 1m<sup>3</sup>--500m<sup>3</sup>

Cryogenic Microbulk Tank: 1m<sup>3</sup>--10m<sup>3</sup>

## Semi-Trailer



**LOOKING FORWARD  
TO YOUR COOPERATION**