



Cryogenic Centrifugal Pumps

Scope of application

- 1. Filling of cryogenic tank wagons
- 2. Unloading of cryogenic tank wagons
- 3. Delivery of liquids

Main technical parameters

- 1. Flow: 5-200 m³/h
- 2. Lift: 10-1000 m
- 3. Rotating speed: 960-5000r/min

Executive standard

- 1. JB/T 9073 Centrifugal Cryogenic Liquid Pumps
Used for Air Separation Plants
- 2. GB/T 3216 Rotodynamic Pumps Hydraulic Performance Acceptance Tests Grades 1 and 2
- 3. API 610 Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas Industries

Optional configuration

- 1. Stationary motor/frequency control
- 2. Safety valve/cryogenic stop valve
- 3. Liquid outlet pressure interlocking device

Performance features

- 1. Its structure is compact and simple.
- 2. High performance copper alloy is used for volutes and impellers so as to guarantee the safety of pumps in liquid oxygen working conditions.
- 3. The pump has mature and reliable mechanical seal, strong anti-cavitation ability, long service life as well as convenient installation and replacement.
- 4. A high strength and cryogenic stainless steel shaft is used.
- 5. Static and dynamic balance tests are performed for the impellers and rotors so as to guarantee the stability of such rotors.
- 6. A variable frequency and variable speed motor can be utilized to make the pump has a wider operation range.
- 7. The inlet and outlet flanges are equipped with flexible connection and a liquid inlet filter; the pipeline vibration is small and the operation is stable.



Product specifications:

型号 Model	流量 Flow	扬程 Head	转数 Speed	电机功率 Power				效率 Efficiency	汽油余量 NPSHr	接口尺寸 Size (DN)	
				LN ₂	LO ₂	LAr	LNG			进口 Inlet	出口 Outlet
	m³/h	m	r/min	kW				%	m	m	m
CYYL-13/130	13	130	2940	22				38	2	50	40
CYYL-24/60	24	60	2935	11				60	2.3	65	50
CYYL-24/90	24	70	2935	18.5			11	60	2.3	65	50
	24	90						54	2	65	50
	24	110	3150	22			11	54	2.2	65	50
	24	134	3350					55	2.8	65	50
	24	189	3950					55	3.6	65	50
	27.5	235	4450	30	37	45	15	55	4.2	65	50
	37.5	235	4750	45	55	75	22	56	4.5	65	50
CYYL-40/90	40	70	2940	22				57	1.5	80	50
	40	90		22		30	22	57	1.5	80	50
	60	85		22	30	37	22	61	1.7	80	50
CYYL-80/120	60	129	2950	37	55	75	22	50.5	1.3	100	50
	80	120		55	75	75	30	54.5	1.9	100	50
	100	105		55	75	90	37	53	2.7	100	50
CYYL-120/135	90	145	2950	55	75	90	30	60	2.8	100	80
	120	135		75	90	110	37	66	3.4	100	80
	150	127		75	90	132	37	68	4.2	100	80
CYYL-50/250	40	270	2950	55	75	90	30	30	45	100	50
	50	250		75	90	110	30	30	47	100	50
	60	240		75	110	132	37	37	48	100	50



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Cryogenic pison pump - Cylinder Filling pump

Scope of application

- 1. Such pumps are mainly used for liquid oxygen,liquid nitrogen, liquid argon and liquefied natural gas.
- 2. Filling of all kinds of cylinders with light, medium and high loads
- 3. Filling of all kinds of storage tanks
- 4. Air supply, air distribution systems

Main technical parameters

- 1. Flow: 50-5000 L/h
- 2. Maximum exit pressure: 16.5 Mpa-35.0 MPa

Executive standard

- 1. JB/T 9076 Specifications for Reciprocating Cryogenic Liquid Pumps
- 2. GB/T 9234 Power Reciprocating Pumps

Optional configuration

- 1. Stationary motor/electromagnetic speed regulation/frequency control
- 2. Safety valve/cryogenic stop valveo
- 3. Back temperature interlocking device
- 4. Air outlet temperature interlocking device
- 5. Air outlet pressure interlocking device

Performance features

- 1. A such pump has classic design and stable performances; its service life can reach 20 years.
- 2. A high vacuum jacket pump head is used, and the vacuum degree reaches 10-5 torr so as to reduce cold loss.
- 3. Its seal is reliable: the service life of packing can each 150,000 times/cylinder and the service life of the piston ring is as long as 300,000 times/cylinder.
- 4. An auxiliary gas sealing device can be equipped to further enhance the service life of the sealingelement.
- 5. Maintenance is convenient: it merely takes two hours to perform a routine maintenance.
- 6. The pump can be continuously operated for 24 hours.



Product specifications:

型号 Model	缸数 quantity of cylinders	流量 Flow rate (L/h)	进口压力 Inlet pressure (MPa)	出口压力 Max out pressure (MPa)	功率 Power (KW)	接口尺寸Size mm(DN)		
						进口 Inlet	出口 Outlet	回气 Return gas
CYY50-150/165	1	50-150	0.02-0.8	16.5	4	25	10	25
CYY100-250/165	1	100-250	0.02-0.8	16.5	4	25	10	25
CYY200-350/165	1	200-350	0.02-0.8	16.5	4	25	10	25
CYY200-450/165	1	200-450	0.02-0.8	16.5	5.5	25	10	25
CYY300-600/165	1	300-600	0.02-0.8	16.5	7.5	25	10	25
CYY300-700/165	1	300-700	0.02-0.8	16.5	11	25	10	25
CYY400-800/165	1	400-800	0.02-0.8	16.5	11	32	15	25
CYY500-1000/165	1	500-1000	0.02-0.8	16.5	11	32	15	25
CYY600-1200/165	1	600-1200	0.02-0.8	16.5	15	32	15	25
CYY200-450/250	1	200-450	0.02-0.8	25	7.5	32	15	25
CYY300-600/250	1	300-600	0.02-0.8	25	11	32	15	25
CYY400-800/250	1	400-800	0.02-0.8	25	15	32	15	25
CYY200-450/350	1	200-450	0.02-0.8	35	11	32	15	25
CYY300-600/350	1	300-600	0.02-0.8	35	15	32	15	25
CYY800-1500/165	2	800-1500	0.02-0.8	16.5	15	40	15	32
CYY1000-2000/165	2	1000-2000	0.02-0.8	16.5	22	40	15	32
CYY1000-2500/165	2	1000-2500	0.02-0.8	16.5	30	40	15	32
CYY800-1500/250	2	800-1500	0.02-0.8	25	22	40	15	32
CYY800-2000/250	2	800-2000	0.02-0.8	25	30	40	15	32
CYY800-1500/350	2	800-1500	0.02-0.8	35	37	40	15	32
CYY1500-3000/165	3	1500-3000	0.02-0.8	16.5	30	50	20	40
CYY2000-4000/165	3	2000-4000	0.02-0.8	16.5	37	50	20	40
CYY2000-4500/165	3	2000-4500	0.02-0.8	16.5	37	50	20	40
CYY2500-5000/165	3	2000-5000	0.02-0.8	16.5	37	50	20	40
CYY1500-3000/250	3	1500-3000	0.02-0.8	25	45	50	20	40
CYY2000-4500/250	3	2000-4500	0.02-0.8	25	75	50	20	40
CYY1500-3000/350	3	1500-3000	0.02-0.8	35	55	50	20	40



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Cryogenic Liquid Tank



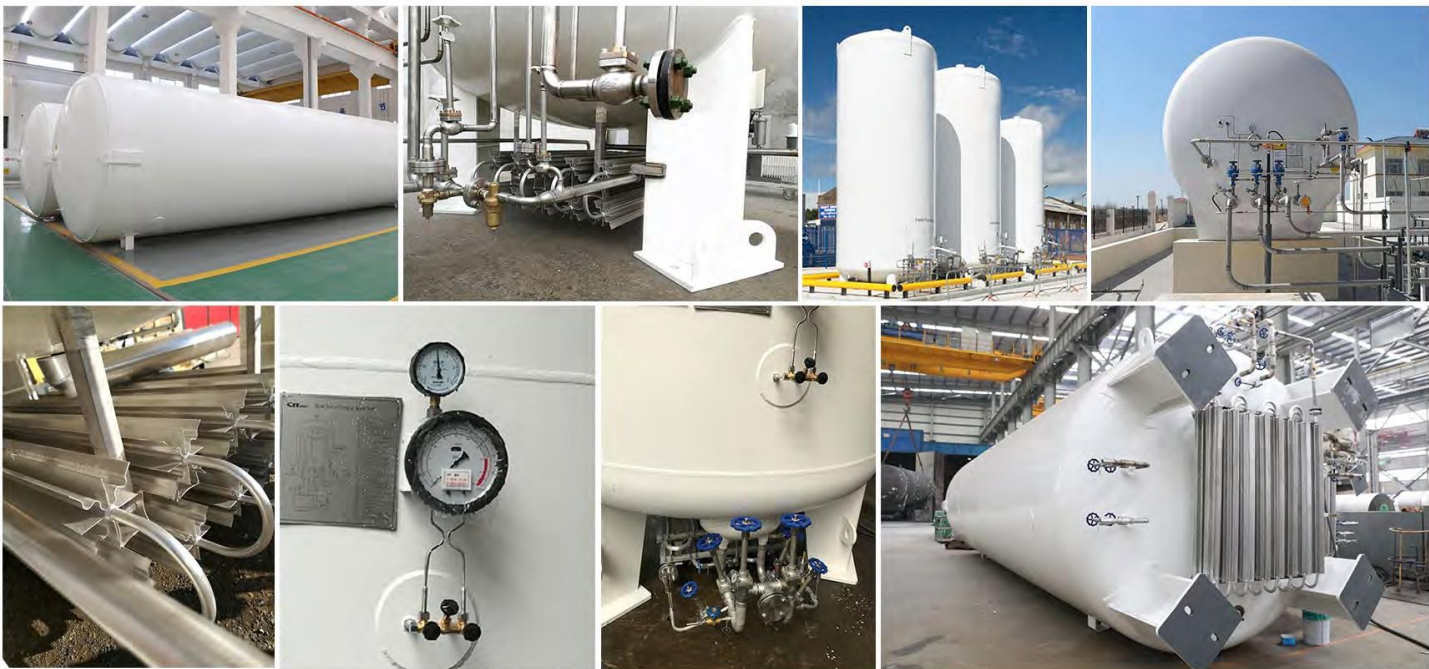
We offer a complete range of tank sizes from 1m³ to 250m³ and in both horizontal and vertical configurations. All CYY Energy's tanks feature perlite or a proprietary multi-layer insulation, which ensures high thermal performance, extended hold times, low life-cycle costs and low weight for reduced operational and installation costs. And can be designed and manufactured according to users' requirements.

Main Technical Parameters:

1. Volume: 1~250m³
2. Working Pressure: 1~40bar
3. Medium: Liquid oxygen, liquid nitrogen, liquid argon, liquid CO₂, LNG, etc...
4. Insulation Type: Vacuum powders insulation/High vacuum multi-layer
5. Design code: GB, ASME, EN, etc...



Product pictures:



Specifications of cryogenic tanks:

Specifications	Effective volume (m³)	Working pressure (Mpa)	Evaporation (%d)			Empty container (Kg)	Dimension (mm)	Foot mounting dimension (mm)	Thermal-insulating type
			LO ₂	LN ₂	LAr				
CYYL-2/0.8	2	0.8	≤0.67	≤1.0	≤0.7	2530	φ1912×3295	φ1900 3 supportings	Vacuum powder
CYYL-3/0.8	3	0.8	≤0.6	≤0.9	≤0.63	2972	φ1912×3948	φ1900 3 supportings	Vacuum powder
CYYL-5/0.8	5	0.8	≤0.435	≤0.650	≤0.46	3896	φ1912×5254	φ1900 3 supportings	Vacuum powder
CYYLS-5/1.6	5	1.6	≤0.435	≤0.650	≤0.46	3997	φ1912×5254	φ1900 3 supportings	Vacuum powder
CYYLP-10/0.8	10	0.8	≤0.360	≤0.550	≤0.38	6068	φ2216×6460	φ1890 3 supportings	Vacuum powder
CYYLS-10/1.6	10	1.6	≤0.360	≤0.550	≤0.38	6120	φ2216×6460	φ1890 3 supportings	Vacuum powder
CYYLP-15/0.8	15	0.8	≤0.350	≤0.530	≤0.37	7880	φ2316×8048	φ1990 3 supportings	Vacuum powder
CYYLS-15/1.6	15	1.6	≤0.350	≤0.530	≤0.37	7900	φ2316×8048	φ1990 3 supportings	Vacuum powder
CYYLS-20/0.8	20	0.8	≤0.330	≤0.500	≤0.35	9014	φ2616×8061	φ2250 3 supportings	Vacuum powder
CYYLS-20/1.6	20	1.6	≤0.330	≤0.500	≤0.35	9730	φ2616×8061	φ2250 3 supportings	Vacuum powder
CYYLS-30/0.8	30	0.8	≤0.290	≤0.440	≤0.31	11910	φ2616×10993	φ2250 3 supportings	Vacuum powder
CYYLS-30/1.6	30	1.6	≤0.290	≤0.440	≤0.31	12880	φ2616×10993	φ2250 3 supportings	Vacuum powder
CYYLS-50/0.8	50	0.8	≤0.23	≤0.35	≤0.24	18326	φ3020×12657	4 supportings	Vacuum powder
CYYLS-50/1.6	50	1.6	≤0.23	≤0.35	≤0.24	20920	φ3020×12657	4 supportings	Vacuum powder
CYYLS-100/0.8	100	0.8	≤0.160	≤0.250	≤0.17	31362	φ3520×16956	4 supportings	Vacuum powder
CYYLS-100/1.6	100	1.6	≤0.160	≤0.250	≤0.17	36433	φ3520×16956	4 supportings	Vacuum powder
CYYLS-200/0.8	200	0.8	≤0.130	≤0.200	≤0.14	68585	φ4128×22700	skirt	Vacuum powder

Specifications of LNG tanks:

Specifications	Effective volume (m³)	Maximum working pressure (Mpa)	Static evaporation rate (%d)	Empty container (Kg)	Dimension (mm)	Foot mounting dimension (mm)	Design code	The container type	Thermal-insulating type
CYYLP-10/0.8	10	0.8	≤0.55	6266	φ2216×6700	φ1890 3supportings	GB/T 18442-2011	II	Vacuum powder
CYYLP-15/0.8	15	0.8	≤0.53	7880	φ2316×8443	φ1990 3supportings	GB/T 18442-2011	II	Vacuum powder
CYYLS-20/0.8	20	0.8	≤0.50	10063	φ2616×8297	φ2250 3supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-30/0.8	30	0.8	≤0.44	14100	φ2616×11463	φ2250 3supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-50/0.8	50	0.8	≤0.35	18890	φ3020×13318	4supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-60/0.8	60	0.8	≤0.32	21525	φ3020×15550	4supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-60/1.2	60	1.2	≤0.32	23246	φ3020×15550	4supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-100/0.8	100	0.8	≤0.25	36152	φ3520×17786	4supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYLS-150/0.8	150	0.8	≤0.225	48380	φ3720×22834	4supportings	Q/NMH-J 20-2017	II	Vacuum powder

Specifications of LCO2 tanks:

Specifications	Effective volume (m³)	Maximum working pressure (Mpa)	Empty container (Kg)	Dimension (mm)	Foot mounting dimension (mm)	Design code	The container type	Thermal-insulating type
CYYL-5/2.2	5	2.2	4755	φ1961×5196	φ1600 3supportings	GB/T 18442-2011	II	Vacuum powder
CYYL-10/2.2	10	2.2	7960	φ2116×6900	φ1790 3supportings	GB/T 18442-2011	II	Vacuum powder
CYYL-15/2.2	15	2.2	10260	φ2316×8014	φ1990 3supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYL-20/2.2	20	2.2	12993	φ2616×8061	φ2250 3supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYL-30/2.2	30	2.2	19580	φ2820×9600	φ2500 3supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYL-50/2.2	50	2.2	27973	φ3020×12660	spacing: 2500 4supportings	Q/NMH-J 20-2017	II	Vacuum powder
CYYL-100/2.2	100	2.2	53995	φ3520×17047	spacing: 2500 4supportings	Q/NMH-J 20-2017	II	Vacuum powder



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ISO Tank Container

An ISO Tank is a tank container which is built to the ISO standard. ISO tanks are designed to carry liquids in bulk, both hazardous and non-hazardous. CYY's ISO intermodal containers are used to transport cryogenic bulk liquids – nitrogen, oxygen, argon, methane, nitrous oxide, ethylene and carbon dioxide – worldwide by ship, rail or road. Our ISO Containers are available in a wide range of working pressures and are built to most global pressure vessel codes.

The 10-foot tank container is designed for oil and gas exploration on offshore drilling platforms with a maximum working pressure (MAWP) of 9 bar.

The 20' intermodal containers can be built to EN or ASME/DOT designs. Available maximum allowable working pressure (MAWP) options include 10, 18, and 24 bar for European design and 100, 150, 180, 230 psi for ASME/DOT designs.

The 40' intermodal containers are designed and optimized for liquid natural gas and suitable for high payloads of Ethylene or Ethane. These 40' ISO containers can be built to EN or ASME/DOT designs with a MAWP of 10 bar for European design and 100 psi for the ASME/DOT design.



Performance Features:

1. Highly reliable, cost effective and safe way of transporting bulk liquids from place to place.
2. Highly unlikely to leak, do not require additional packaging materials for the cargo, can maintain a specific temperature for temperature sensitive cargo.
3. Can be transported by road, rail or ship.
4. Certified by classification society: BV, LR, CCS

Main Technical Parameters:

1. Size: 10ft, 20ft, 40ft
2. Working pressure: 9bar, 16bar, 22bar
3. Medium: Liquid oxygen, liquid nitrogen, liquid argon, liquid CO2, LNG, etc



Product pictures:



Product specifications:

型号 Model	介质 Medium	尺寸(ft) Size	工作压力(MPa) Working pressure	设计温度(℃) Design Temperature	外形尺寸 (mm) Dimension	绝热形式 Insulation Type	主要材质 (内/外) Main material (in/out)
CYY-TC-10	LOX, LIN, LAr, LCO ₂ , LNG	10	0.9	-196	2991x2438x2591	高真空多层缠绕 High vacuum multi-layer	不锈钢/碳钢 Stainless steel/Carbon steel
CYY-TC-20	LOX, LIN, LAr, LCO ₂ , LNG	20	1.6 / 2.2	-196	6058x2438x2591	高真空多层缠绕 High vacuum multi-layer	不锈钢/碳钢 Stainless steel/Carbon steel
CYY-TC-40	LOX, LIN, LAr, LCO ₂ , LNG	40	0.8	-196	12192x2438x2591	高真空多层缠绕 High vacuum multi-layer	不锈钢/碳钢 Stainless steel/Carbon steel



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Small cryogenic liquid tank (Micro bulk tank)



The flat-bottom vertical small cryogenic liquid tank designed and manufactured by our company is a compact double vessels multi-layer cryogenic thermal insulation pressure vessel for storing and supplying cryogenic liquids. It consists of an austenitic stainless steel inner vessel, low alloy steel or stainless steel outer vessel, support components for connecting the inner and outer vessels, thermal insulating material, molecular sieve adsorbent device, forklift pallet, and valves and piping operating system installed around the outer vessel of the tank, etc.

Main technical parameters:

- 1. Capacity: 1~5m³
- 2. Working pressure: 1.6~3.4MPa
- 3. Material: Stainless steel, carbon steel
- 4. Medium: Liquid oxygen, liquid nitrogen, liquid argon, liquid CO2, LNG, etc.



Product features:

- 1. It is convenient, fast, safe, reliable and economical during the operation. It has the dual function of being suitable for liquid or gas, and can enjoy continuous uninterrupted gas supply to improve working efficiency.
- 2. The tank consists of a vacuum outer vessel and a stainless steel inner vessel placed therein for permanent sealing of the insulation layer to ensure a good vacuum.
- 3. The entire operation valves of tank is evenly distributed around the tank, and it has the advantage of compact structure, small space occupation, simple operation, and can be moved through the bottom tray, and is convenient to install and move.
- 4. Cryogenic small storage tanks are designed for efficient gas use. They are more economical, more conducive to distribution and convenience for industrial, scientific and medical fields. They are suitable for boiler retrofits, ceramics factories, hotels, restaurants, laser processing, cryogenic laboratories, etc. The thermal insulation structure and good performance have been widely used by users.

Product pictures:



Product specifications:

型号规格 Specifications	CYLS-1/1.6	CYLS-1/2.6	CYLS-1/3.4	CYLP-1/1.6	CYLL-1/2.2	CYLS-2/1.6	CYLS-2/2.6	CYLS-2/3.4	CYLS-2/1.6	CYLL-2/2.2	CYLS-3/1.6	CYLS-3/2.6	CYLS-3/3.4	CYLS-3/1.6	CYLS-3/2.2	CYLS-5/1.6	CYLS-5/2.5	CYLS-5/3.4	CYLS-5/1.6	CYLS-5/2.2	
压力等级 Pressure rating	低压 Low pressure	中压 Medium pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	中压 Medium pressure	低压 Low pressure	中压 Medium pressure	
表面处理 Surface treatment	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	抛光 Polish	
隔热形式 Thermal-insulating type	高真空多层绝热 High vacuum multi-layers thermal-insulating																				
支撑形式 Base-support structure	叉车支座 Stainless steel bearing suitable for forklift usage																				
全容积 (m³) Total volume	1.06	1.06	1.06	1.11	1.06	2.1	2.1	2.1	2.22	2.1	3.18	3.18	3.18	3.34	3.18	5.27	5.27	5.27	5.56	5.27	
有效容积 (m³) Effective volume	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	5	5	5	5	5	
最大工作压力 (Mpa) Maximum working pressure	1.6	2.6	3.4	1.6	2.2	1.6	2.6	3.4	1.6	2.2	1.6	2.6	3.4	1.6	2.2	1.6	2.5	3.4	1.6	2.2	
设计标准 Design standard	GB/T 150.1 ~ GB/T 150.4;GB/T 18442;Q/NUMU 20-2017																				
装载介质 及最大 重量 Medium and maximum loading weight	液氧 (KG) LO ₂	1140	1140	1140	/	/	2280	2280	2280	/	/	3420	3420	3420	/	/	5700	5700	5700	/	/
	液氮 (KG) LN ₂	810	810	810	/	/	1620	1620	1620	/	/	2430	2430	2430	/	/	4050	4050	4050	/	/
	液氩 (KG) Lar	1410	1410	1410	/	/	2820	2820	2820	/	/	4230	4230	4230	/	/	7050	7050	7050	/	/
	液态二氧化碳 (KG) LCO ₂	/	/	/	/	1029	/	/	/	/	2058	/	/	/	/	3087	/	/	/	5145	
	液态天然气 (KG) LNG	/	/	/	426	/	/	/	/	852	/	/	/	/	1278	/	/	/	2130	/	
日蒸发率 (液氮) Evaporation(LN ₂)	≤0.8%	≤0.8%	≤0.8%	≤0.8%	≤0.8%	≤0.7%	≤0.7%	≤0.7%	≤0.7%	≤0.7%	≤0.6%	≤0.6%	≤0.6%	≤0.6%	≤0.6%	≤0.45%	≤0.45%	≤0.45%	≤0.45%	≤0.45%	
供气量 (Nm³/h) Capacity	30	30	30	30	30	35	35	35	35	35	40	40	40	40	40	60	60	60	60	60	
产品重量 (KG) Weight of empty storage tank	988 (Stainless steel) 1038 (Carbon steel)	1054 (Stainless steel) 1070 (Carbon steel)	1180 (Stainless steel) 1218 (Carbon steel)	1106 (Stainless steel) 1154 (Carbon steel)	1175 (Stainless steel) 1229 (Carbon steel)	1486 (Stainless steel) 1524 (Carbon steel)	1571 (Stainless steel) 1690 (Carbon steel)	1760 (Stainless steel) 1890 (Carbon steel)	1546 (Stainless steel) 1640 (Carbon steel)	1756 (Stainless steel) 1870 (Carbon steel)	1849 (Stainless steel) 1973 (Carbon steel)	1980 (Stainless steel) 2023 (Carbon steel)	2223 (Stainless steel) 2263 (Carbon steel)	1893 (Stainless steel) 1936 (Carbon steel)	2394 (Stainless steel) 2428 (Carbon steel)	3225 (Stainless steel) 3311 (Carbon steel)	3475 (Stainless steel) 3410 (Carbon steel)	3919 (Stainless steel) 3854 (Carbon steel)	3370 (Stainless steel) 3994 (Carbon steel)	4033 (Stainless steel) 4110 (Carbon steel)	
外形尺寸 (mm) Dimension	1400×1400 ×2444	1400×1400 ×2444	1400×1400 ×2444	1400×1400 ×2444	1400×1400 ×2444	1700×1700 ×2680	1700×1700 ×2680	1700×1700 ×2680	1700×1700 ×2680	1700×1700 ×2680	1850×1850 ×2945	1850×1850 ×2945	1850×1850 ×2945	1850×1850 ×2945	1850×1850 ×2945	2250×2250 ×3060	2250×2250 ×3060	2250×2250 ×3060	2250×2250 ×3060	2250×2250 ×3060	



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