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Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://runfeng.nt-rt.ru/> || rgk@nt-rt.ru

MicroBulk Storage Systems



Short Description:

Micro tank is a pressure vessel which is used for filling and storing dangerous chemicals such as LO₂, LAr, LN₂, LCO₂ and LNG. The maximum working pressures available are 0.8Mpa, 1.6Mpa, 2.4Mpa and 3.4Mpa; the nominal volumes available are 1M³, 2M³, 3M³ and 5M³. The micro tank is suitable for transporting vaporized gases when it's connected with a vaporizer. Micro tanks are pressure vessels with inner and outer container double layers structure. The inner container is made of stainless steel suspended in the outer container with supporting devices. The space between the inner container and the outer container is wrapped with heat insulated material and vacuum withdrawn. Relevant safety regulations must be complied with when installing, using or maintaining the micro tank.

Product Description

Micro tank is a pressure vessel which is used for filling and storing dangerous chemicals such as LO₂, LAr, LN₂, LCO₂ and LNG. The maximum working pressures available are 0.8Mpa, 1.6Mpa, 2.4Mpa and 3.4Mpa; the nominal volumes available are 2M³, 3M³, 5M³ and 7.5M³. The micro tank is suitable for transporting vaporized gases when it's connected with a vaporizer. Micro tanks are pressure vessels with inner and outer container double layers structure. The inner container is made of stainless steel suspended in the outer container with supporting devices. The space between the inner container and the outer container is wrapped with heat insulated material and vacuum withdrawn. Relevant safety regulations must be complied with when installing, using or maintaining the micro tank.



Specification

Technical Parameters of Ansuda (microbulk portable tanks)											
Geometric Volume	Work Pressure (MPa)	Liquid Gases Weight (kg)					Tare Weight (kg)	Inner vessel	Outer vessel	Evaporator (N.m ³ /h)	Overall Dimensions (mm)
		LO ₂	LN ₂	LAr	LNG	LCO ₂					
3 m ³	0.8	3237	2300	4004	1209	/	1876	S30408	Q345R	80	3079*2139*1950
	1.6					/					
	2.1					3167 1997					
4.8 m ³	0.8	5198	3693	6429	1943	/	2862	S30408	Q345R	80	3076*2200*2377
	1.6					/					
	2.1					5085 3084					
7.5 m ³	0.8	8105	5759	10025	/	/	4029	S30408	Q345R	100	3170*2715*2450
	1.6				/						

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.

Main Features

1. The main performance index of cryogenic micro tank is not lower than the technical level of conventional fixed liquid storage tank.
2. The process adopts a structure of integrated pipeline and vessel, which is most suitable for limited space.
3. The purity of the gas can be reliably guaranteed to avoid the unstable factors of the purity of dewar.
4. Cryogenic liquid filling can be realized on site, which is a good solution to the shutdown caused by gas supply.

Application Fields

Microbulk tanks can be widely used in various industries, such as laser processing, electronics, scientific research, chemical engineering, welding, medical, food industry etc. The vessel has a compact structure with a small footprint.

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