

Auguste Cryogenics

Product Portfolio

Auguste Cryogenics is an internationally renowned manufacturer of pressure vessels and containers for cryogenic, liquefied gases.

Since 1965 our European operations has designed and hand crafted these products for the global market. With our manufacturing facility in Košice, Slovakia and sales and distribution center in Husum, Germany, Auguste Cryogenics has continuously shaped the worldwide cryogenics industry and continues the tradition of practices and intellectual property for which the company was built. At the same time, we take pride in investing in our employees and in innovative solutions for tomorrow.

Auguste Cryogenics products are characterized by their high technical standard and their reliability. Our portfolio includes:

- Vertical and horizontal bulk tanks from 2,000 to 250,000 litres capacity for use in industry (LIN, LOX, LAR, LCO2, LN2O) and in the energy sector (LNG, LH2).
- Stationary and transportable microBulk tanks from 750 to 5,000 litres capacity.
- Liquid cylinders with capacities from 70 to 240 litres for different operating pressures.
- Stainless steel cryobiological freezers for the safe and economical long-term storage of larger sample quantities.
- Aluminum Dewars from 2 to 175 litre capacity for storage and safe transport of sample material in liquid nitrogen.
- Specially engineered vessels for a large variety of purposes, designed and built to the needs and demands of our clients.

We can provide you with a solution for every aspect of your cryogenic liquefied gas storage needs – please do not hesitate to contact the specialists in our sales teams.



CONTACTS

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www.augustecryogenics.com



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ADDRESS

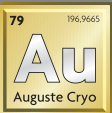
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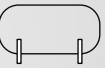
PRODUCT

Stationary, vacuum-insulated pressure vessels for the storage of cryogenic liquefied hydrogen

Variations



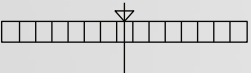
vertical



horizontal



More informations | www.augustecryogenics.com



AC SCS HYDROGEN BULK TANKS

Highly engineered precision equipment

AC SCS HYDROGEN Vertical/Horizontal Cryogenic Bulk Tanks

Standard specifications

Outer vessel	Carbon steel or stainless steel
Inner vessel	Stainless steel
Insulation	Multilayer Super Insulation
Vacuum	Auguste Cryogenics GOLD Standard vacuum with 5 years warranty
Pressure range	Standard MAWP 5 – 37 bar (individual customizations available on request)
Coating	• Blasted ground (to SA 21/2, DIN 559281) • HEMPAPRIME Multi 500 45953 (190 µm) • HEMPAXANE CLASSIC 55000 (90 µm)

Vessels to store liquid hydrogen have to fulfill the highest demand on craftsmanship and precision. The Auguste Cryogenics Liquid Hydrogen tanks excel all expectations and are built to the highest standards of quality and safety. Auguste Cryogenics is proud to be one of the very few certified liquefied hydrogen pressure vessel manufacturers worldwide.

The SCS ENERGY | LH2 cryogenic storage tanks are designed and built on the principle of superior vacuum integrity and complete thermal insulation. They consist of an inner and an outer vessel. The inner vessel, which is suspended concentrically in the outer vessel, is used for storage of the cryogenic liquefied hydrogen and is manufactured from stainless steel.

The outer container is made from carbon steel. The vessels' annular space is filled with high quality multilayer superinsulation wrap and then evacuated to virtually zero atmosphere. The integrity of all welded joints is confirmed by various NDT methods in compliance with specific global quality standards, insuring long-term vacuum integrity. In addition, internally placed sieve material absorbs any off-gassing or moisture that develops over time thus offering highly superior vacuum performance with exceptionally low evaporation rates throughout the vessels' extensive working life. Auguste Cryogenics grants a 5 year warranty on the renowned and industry-leading Auguste Cryogenics GOLD Standard vacuum. All Auguste Cryogenics' LH2 storage vessels are designed and

manufactured with innovative safety standards and design elements to satisfy -253°C (-423°F) conditions in our ISO 9001:2015 certified production facility. Well-trained, experienced personnel builds the vessels to European code EN 13458, following PED 2014/68/EU guidelines. This equipment directive is comprised of strict rules for flammable gases. The tanks are painted with durable protective coating, in-house certified passive fire protection (PFP) coating is also available. Our LH2 vessels can fit a range of applications such as vehicle fueling stations and various other processes. New storage requirements are emerging within the Energy Industry and our expertise helps us to lead the way in building a better vessel every day.

The **unique technology** behind these products is very sensitive. Please contact us to learn more.

Type SCS HYDROGEN 11 bar		20 000	60 000	80 000	100 000
Gross capacity ¹⁾ (l)		19 200	61 000	81 700	104 400
Net capacity (95%) ¹⁾ (l)		18 240	57 950	77 615	99 180
Total height (mm)	A	10 050	13 990	18 250	15 400
Diameter (mm)	B	2 200	3 000	3 000	3 600
Foot hole circle (mm)	C	2 000	2 800	2 800 ³⁾	3 500 ³⁾
Fill flange height (mm)	D	2 400	3 200	3 200	3 800
Height loaded (mm)	E	500	500	500	500
Weight (kg)	Empty	8 750	21 920	29 910	35 830
	Full (LH2)	10 036	26 006	29 383	42 824

- 1) Calculated volumes can deviate as a consequence of the cold stretch process
2) SCS 100,000 - 8 bar
3) Models 80,000 and 100,000 with 4 support legs

