

Hydrogen Liquefier

Product description

Hylum Industries' Hydrogen Liquefier system consists of a pre-cooling heat exchanger for gas hydrogen by liquid nitrogen (LN2), the three Gifford-McMahon (GM) cryocoolers and a Joule-Thomson (J/T) valve.

Features

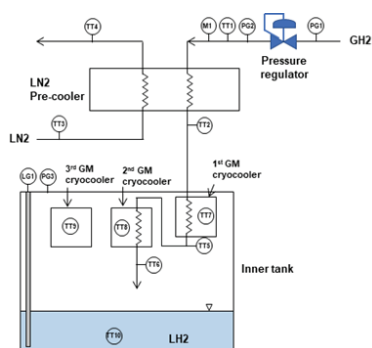
- Super vacuum insulated transfer line and storage tank
- Liquid level sensor and temperature/pressure sensor
- Increased safety measures
- LH2 liquefaction temperature: -253°C (20K)
- GM-JT thermodynamic cycle
- Ortho-para converter, 99,99% high-purity LH2 production



Product options

Model	Capacity	Remarks
HyLiq1	1,5 kg/day	- GH2+1barg - 120L storage LH2 tank - (2015) CEC Russel B. Scott Memorial Award Product
HyLiq3	10 kg/day	- GH2+1barg - 260L storage LH2 tank
HyLiq3+	25 kg/day	- GH2+65->2barg - 550L storage LH2 tank
HyLiq12	100 kg/day	- GH2+65->2barg - 2,200L storage LH2 tank
HyLiq+	> 100 kg/day	- Information provided upon request

System schematic diagram



10 kg/day Hydrogen Liquefier diagram