Hy-Store® H1

The perfect solution to store H2 after production

The most cost efficient way to store hydrogen is using the already available 35 bar output pressure of our electrolysis systems

Quick and safe installation and commissioning because of

- ✓ lowest humidity for fuel cell and mobility applications
- ✓ prefilled with nitrogen
- ✓ no vacuum pumping needed
- ✓ 30 years lifetime
- ✓ 35m^3 of Hydrogen storage at 35 Bar

Dimensions	Ø800 mm x 2,500 mm vertical
Net weight	approx. 450 kg
Nominal volume	1 m^3
Vessel material	P355N
Working pressure	-1 /+35 bar
Min/max operating temp	-20 °C / +50
Storage medium	Gaseous hydrogen (GH2)
Max H2 storage	2.87 kg @ 15 °C
Corrosions allowance	1 mm inside
Design code	DGRL (PED) 2014/68/EU-Module G, AD 2000
Includes	CE marking, Pressure test, TÜV construction and final inspection, Documentation (digital) • Longer durability due to heat treatment

- ✓ Transported on pallet
- ✓ Filled with nitrogen on delivery
- ✓ Block flange with 3 x 1/2" screw-in connection
- ✓ Socket on top 1/2" for safety valve
- ✓ Moisture content less than 100 ppm
- ✓ Tank with pipe feet
- ✓ Vertical or horizontal placement possible

Optional PRU (pressure reducer unit)
Available for integration of Hydrogen storage vessels with fuel cells.

PRU includes pressure release valve, pressure reducer (35Bar to 0.5 Bar), purge valve and isolation valves