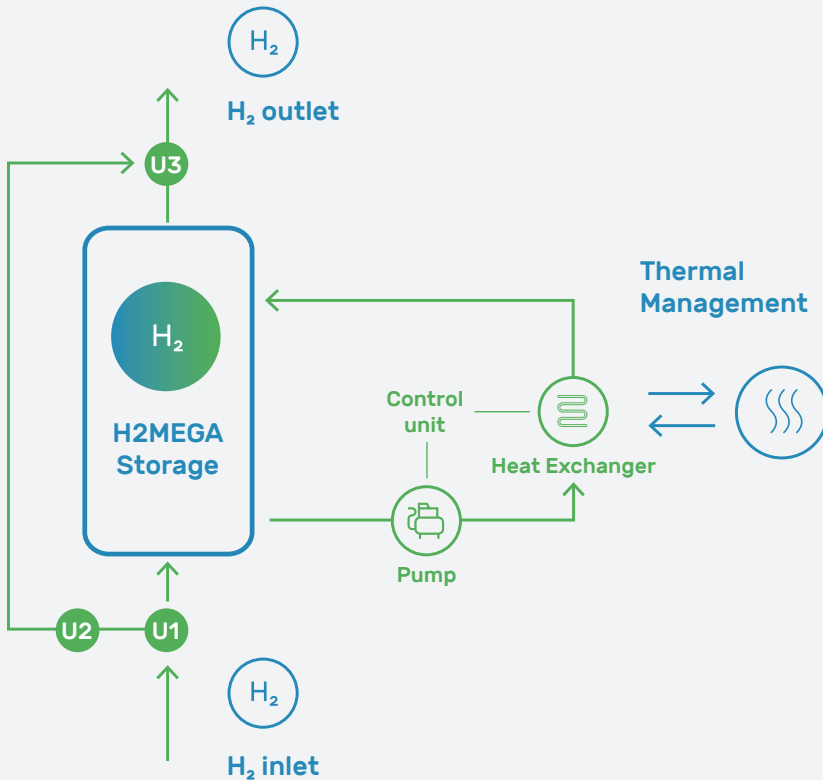


GREEN ENERGY STORAGE

HY2MEGA



Hydrogen storage capacity / unit
up to 260 kg (units can be clustered / stacked)



Energy storage capacity / unit
> 8,6 MWh



Dimensions
13150 x 1350 x 1350 mm



Transport weight
30,000 kg



Operating weight
35,000 kg (Cooling water approx. 3-5 tons)



Storage unit transportable by
Truck & train



H₂ loading/unloading mass flow
up to 65 kg H₂/h
(standard conditions)



Pressure range
0,5 - 40 bar(g)



Temperature range
20°C - 70 °C



H₂ quality spec
5.0 - (99.999%)










Ad-/ Desorption energy
~4 kWh/ kg H₂

SPECIFICATION



GKN Hydrogen equipment package

-  **HY2MEGA Storage**
-  **Piping (IN/OUT/SAFETY)**
-  **Heat exchanger**
-  **Pump**
-  **Inertization with Argon/others**
-  **Control unit**
-  **Electrical installed load: < 10 kW**

Application areas



SEASONAL STORAGE



MICRO GRIDS & BUILDINGS



INDUSTRY



POWER BACK-UP



CHARGING STATION

Unique advantages

100% recyclable

100% safe stored @40 bar

Superior energy/space ratio vs. batteries, H₂ gas storage @40 bar

Storage lifetime 20 years

Energy storage capacity > 98% over lifetime

Requirements

- Concrete foundation (building authority)
- Definition of operational mode (off-grid, grid-parallel, back-up power)
- Certification authority request