

i-HSC[®]

Intelligent Hydrogen Storage Container

Logistics is becoming an integral part of the hydrogen economy. The HDISYS storage and transport solution enhances the traditional shipping container by transforming it into an "intelligent" hydrogen container (i-HSC[®]).

Advantage of i-HSC

- Containers are significantly lighter which allows an increase of capacity for transporting H₂
- i-HSC are versatile, serving as both stationary storage units and portable solutions.
- The combination of manual and automated controlled gas flow from independent sectors ensures high-level safety and efficiency
- Remote monitoring of the status and location of the i-HSC



Advanced gas distribution panel

Solar panels



20 cylinders divided into 4 independent pressure sections

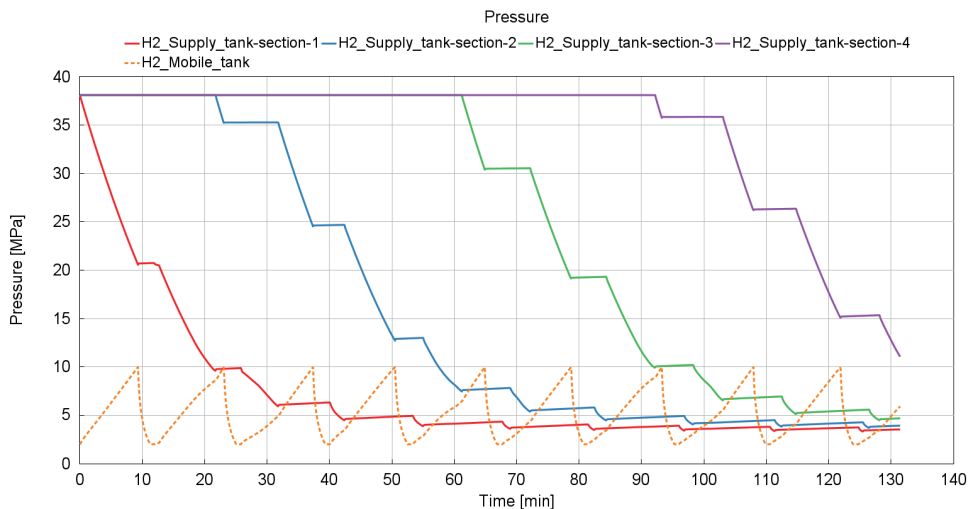
Electrical cabinet

i-HSC 190

Automated sectional refiller:

Refilling models:

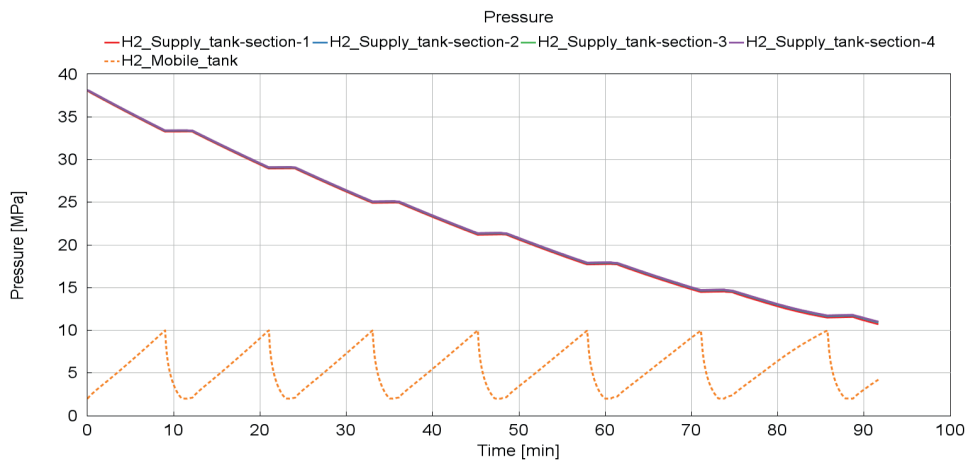
4 sections 7200L@381bars → cylinder bundles 2400L@100bars



Target storage use: 10 fillings (137 kg), 74% of storage utilization.

One section refiller:

1 section 7200L@381bars → cylinder bundles 2400L@100bars



Target storage use: 8 fillings (101 kg), 55% of storage utilization.



The use of discharge models enables the programming of automatic discharge, thereby optimizing delivery routes to various destinations and increasing the efficiency and cost-effectiveness of distribution.

