

# i-HSC<sup>®</sup> 240

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<sup>®</sup>).

## Technical data

- Total weight: **3710 kg**
- 10feet container: 1250 kg
- 20 composite cylinders T-4: 2220 Kg
- Weight of hydrogen: 240 kg (@381 Bars)
- Size: **2.991 × 2.438 × 2.591 mm**
- Stored energy: **8.3 MWh**

## Advantage of i-HSC

- Containers are significantly lighter which allows an increase of capacity for transporting H<sub>2</sub>
- 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

Electrical cabinet

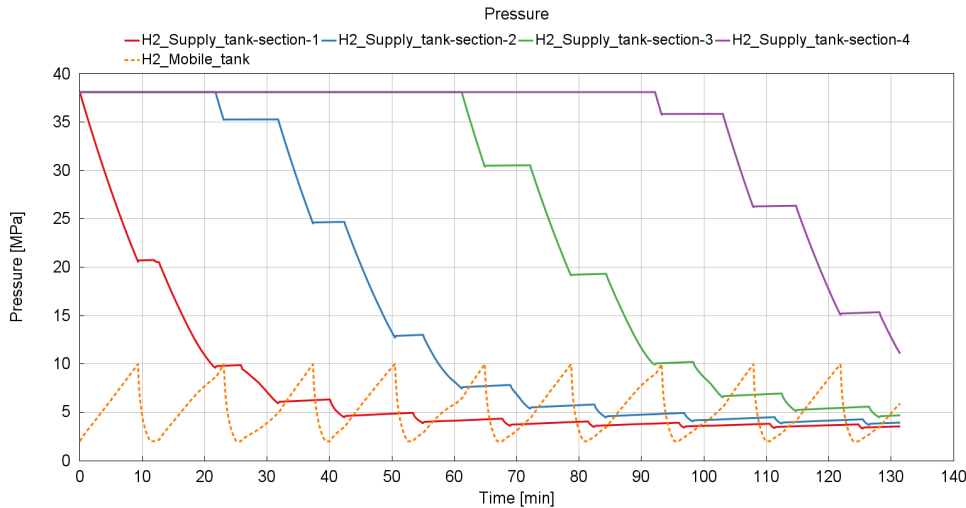
20 cylinders divided into 4 independent pressure sections



## Automated sectional refiller:

Refilling models:

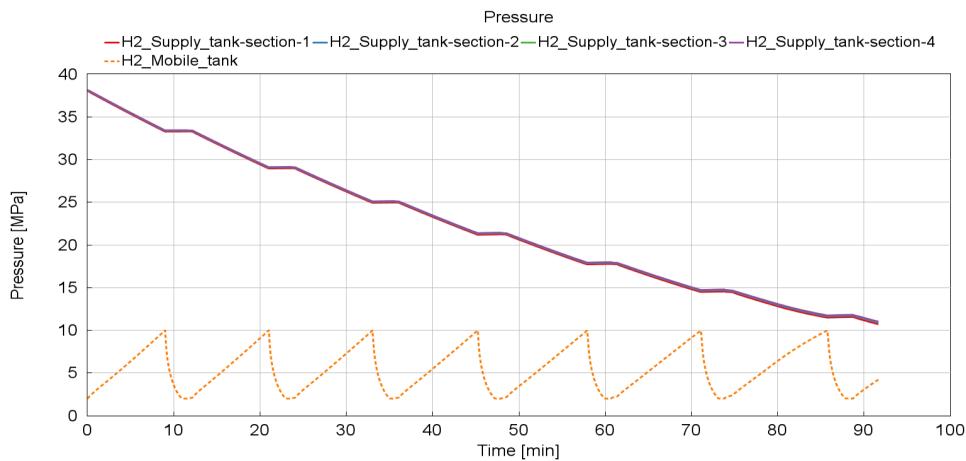
4 sections 7000L@381bars → cylinder bundles 2400L@100bars



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

## One section refiller:

1 section 7000L@381bars → cylinder bundles 2400L@100bars



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

The i-HSC is designed with modern technology to ensure precise control over hydrogen transfer, enhanced safety through automated features, and enable the monitoring and management of data from a distance.



The use of discharge models makes it possible to program the automatic discharge of i-HSC and there by optimize the delivery route to different destinations, which increases the economy of distribution.

