

TECHNICAL SPECIFICATIONS

THE STORAGE UNIT

	01	02	03
Available storage capacities (in LHV)	200 MWh	2'500 MWh	25'000 MWh
Available storage capacities	6 tons H ₂	75 tons H ₂	750 tons H ₂
Dimension	7.2 m (w) x 7.2 m (l) x 14 m (h) (1)	14 m (diameter) x 16 m (height)	30 m (diameter) x 23 m (height)
H ₂ present in system	2 kg	20 kg	200 kg
Available from	2026	2027	2029
Energy needed to keep system hot	3.2 kW/ unit	30 kW/unit	95 kW/unit

(1): Space use per unit is reduced in case several units are pooled

THE PERIPHERY

	01	02	03
Available sizes	6 kg h ⁻¹	75 kg h ⁻¹	750 kg h ⁻¹
Available from	2026	2027	2029

GENERAL

Plant design

Skid based

Dimension

Standard 40 feet container
(12.19 m x 2.44 m x 2.59 m)

Pressure range

0 – 5 bar overpressure

CHARGING

Hydrogen purity (inlet)

< 3 Vol. % steam

Heat (@550°C)

17 MJ kgH₂⁻¹

Cooling medium (@5-10°C)

26 MJ kgH₂⁻¹

Electricity

0.15 kWhel kgH₂⁻¹

Water drained

9 kgH₂O kgH₂⁻¹

DISCHARGING

Hydrogen purity (outlet)

0.2 – 1 vol% water

(depending on pressure)

Heat (@100°C)

14 MJ kgH₂⁻¹

Cooling medium (@5-10°C)

6.7 MJ kgH₂⁻¹

Electricity

0.12 kWhel kgH₂⁻¹

Water needed

9.1 kgH₂O kgH₂⁻¹