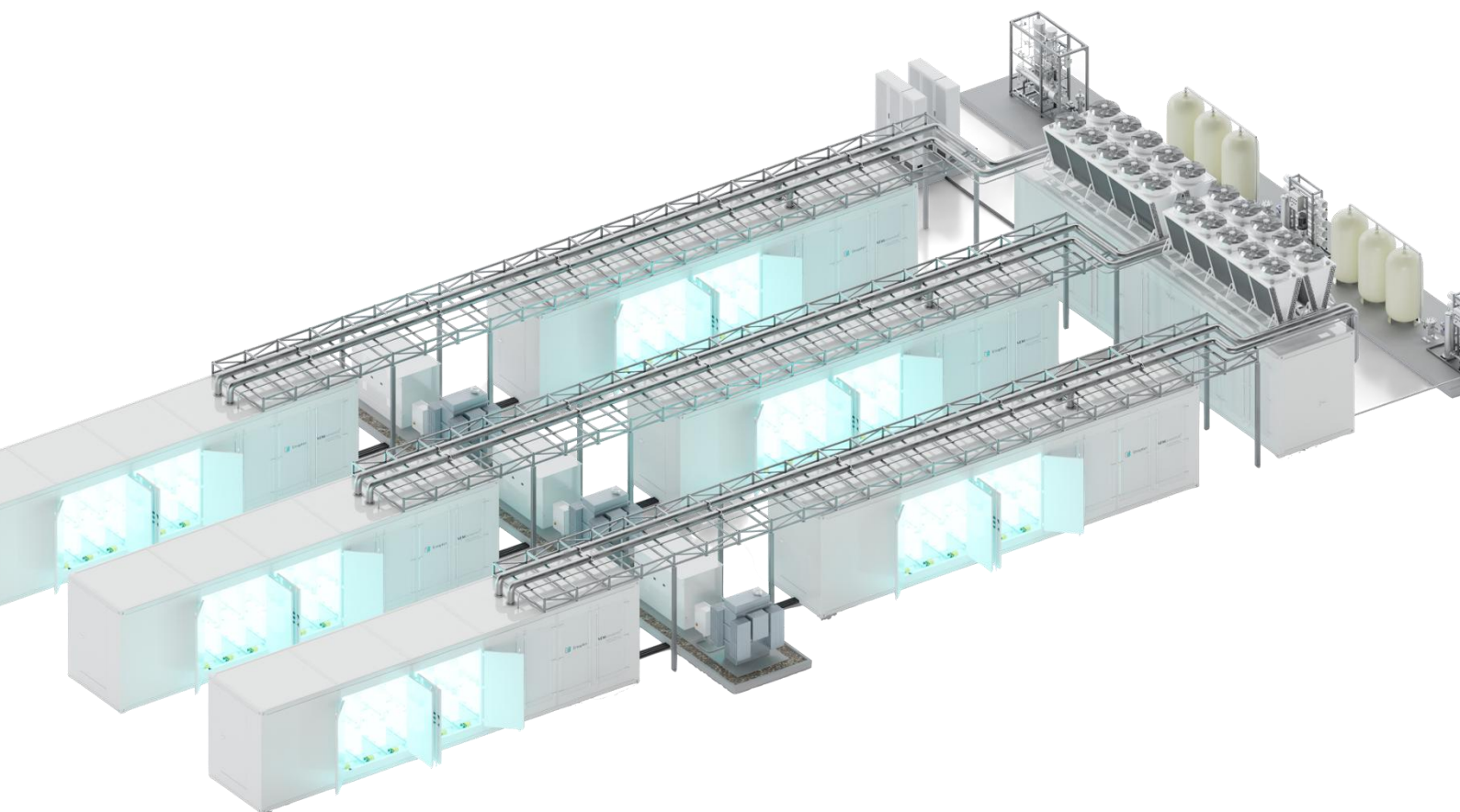


AEM RHEOS 20



Key features

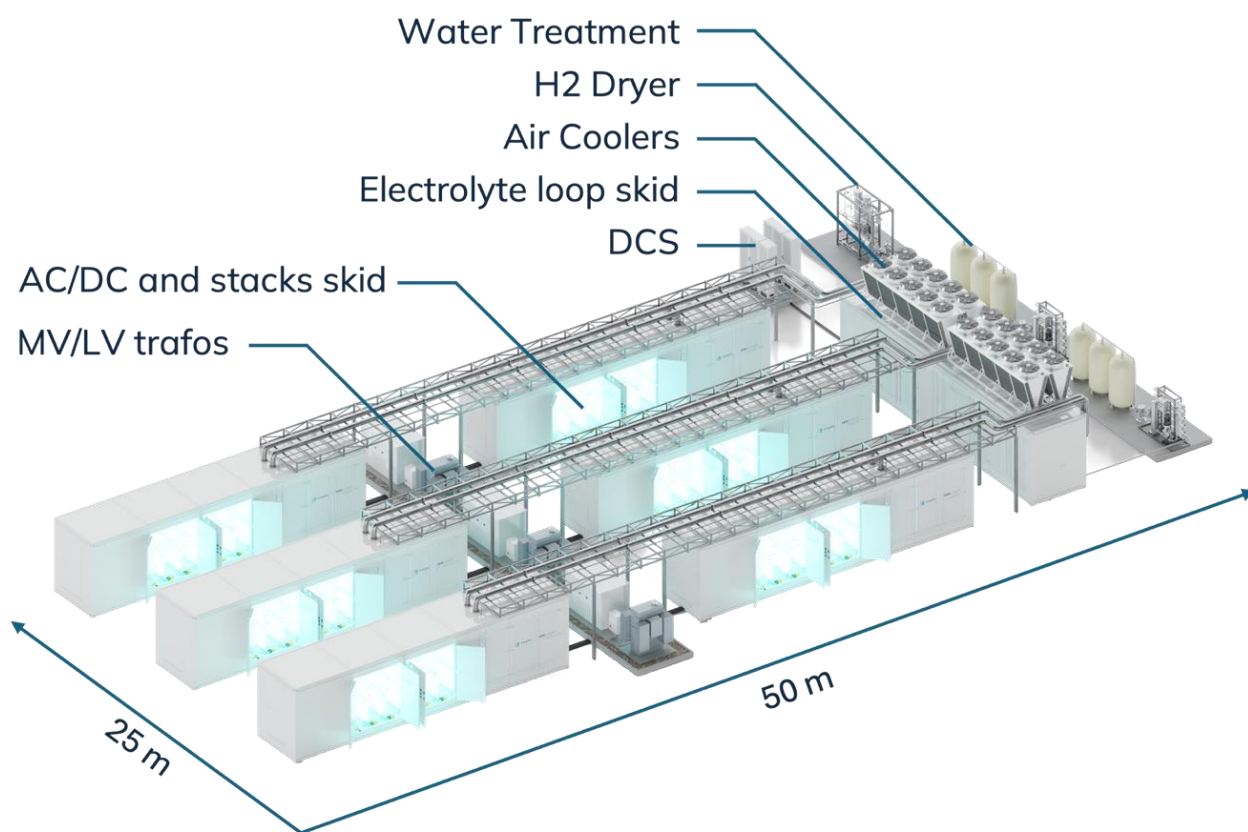
- ≡ Unmatched system efficiency: <52 kWh/kg
- ≡ Fully automatic operation, AI optimized
- ≡ **Modular** architecture for max. redundancy
- ≡ Rapid reaction times to variable renewables
- ≡ Low maintenance requirements

The AEM RHEOS 20 is a full-scope, skid mounted AEM hydrogen plant, featuring many AEM stacks around a common balance of plant (BoP) that includes MV/LV transformers, rectifiers, cooling/heating, water treatment and electrolyte loop.



AEM RHEOS 20

<http://www.enapter.com/>



H₂ nominal flow	4000 Nm ³ /h (~362 kg/h)	Net volume flow rate
H₂ outlet pressure	Up to 31 barg	
H₂ purity after purification	99.999% in molar fraction	Impurities: H ₂ O < 5 ppm, O ₂ < 5 ppm
Specific power consumption (Efficiency)	4.62 kWh/Nm ³ H ₂ 51.4 kWh/kg H ₂	Including all utilities inside the battery limits @standard conditions*
Nominal power consumption	18,590 kW	Including all utilities inside the battery limits, @standard conditions*
H₂O nominal consumption	3,242 L/h	The consumption of raw water should be determined based on the actual water quality
H₂O inlet purity (recommended)	Type II water Acidity < 0.1 meq/l	According to ASTM D1193-06 According to ASTM D1067
Operational flexibility	1% – 100%	
Type of installation	Indoor	Footprint 1,250 m ²

**at full load, normal operation, BoL, 55°C electrolyte temperature and 15°C ambient temperature*