

RENEWABLE HYDROGEN FOR ALL APPLICATIONS

**SUNFIRE-HYLINK** ALKALINE**PRODUCT**

Sunfire-HyLink Alkaline is our established, large-scale electrolysis solution. With several decades of proven system runtime and pressurized hydrogen output, the electrolyzer is the cost effective, reliable and ready-to-use solution for any hydrogen project.

**APPLICATIONS**

The electrolyzer provides renewable hydrogen as an essential element for decarbonizing industries, mobility and energy.

- + **Steel:** Direct reduction of iron, blast furnace injection, protective atmosphere, etc.
- + **Refineries:** Desulphurization, hydrocracking, hydrogenation, etc.
- + **Chemicals:** Ammonia production, hydrogenation, isotope separation, etc.
- + **Mobility:** Fuel cell vehicles for road and rail
- + **Energy:** Industry and space heat, power balancing, etc.

**CORE ADVANTAGES**

- + **Robustness**  
Proven technology with demonstrated system runtime of more than 20 years
- + **CAPEX**  
Lowest electrolyzer costs reduce capital requirements
- + **Pressure**  
Renewable hydrogen is delivered at a pressure of up to 30 bar (g)
- + **Scalability**  
10 MW modular design enables effective scaling to large electrolysis capacities
- + **Adaptability**  
Easy integration into any environment – whether industrial or greenfield

## SUNFIRE-HYLINK ALKALINE – TECHNICAL DATA



### HYLINK ALKALINE

Hydrogen production	
Net production rate	2,230 Nm <sup>3</sup> /h
Production capacity dynamic range	20 % ... 100 %
Delivery pressure	30 bar (g) without additional compression
Hydrogen purity	> 99.6 % before gas cleaning**
Operation temperature	up to 85 °C
Power input and electrical efficiency	
Stack power rating (DC)	10,000 kW
Specific power consumption at system level (AC)	4.7 kWh/Nm <sup>3</sup>
System electrical efficiency*	64 %
Feedstock	
Demineralized water consumption	1.9 m <sup>3</sup> /h
Electrolyte	30 % KOH aqueous solution
Other specs	
Proven system runtime	> 20 years
Stack lifetime	> 90,000 h
Footprint***	~ 450 m <sup>2</sup>
Ambient temperature	5 °C ... 40 °C

\* Lower heating value of hydrogen referred to AC power input

\*\* up to 99.998 % after gas cleaning

\*\*\* Average space requirement for a 10 MW system comprising all auxiliary systems