

# PURE POWER

# PURE HYDROGEN

Technology and Design  
Made in Germany

## Hydrogen Generation System

### PRODUCT NAME

HyMax

### PRODUCT CODE

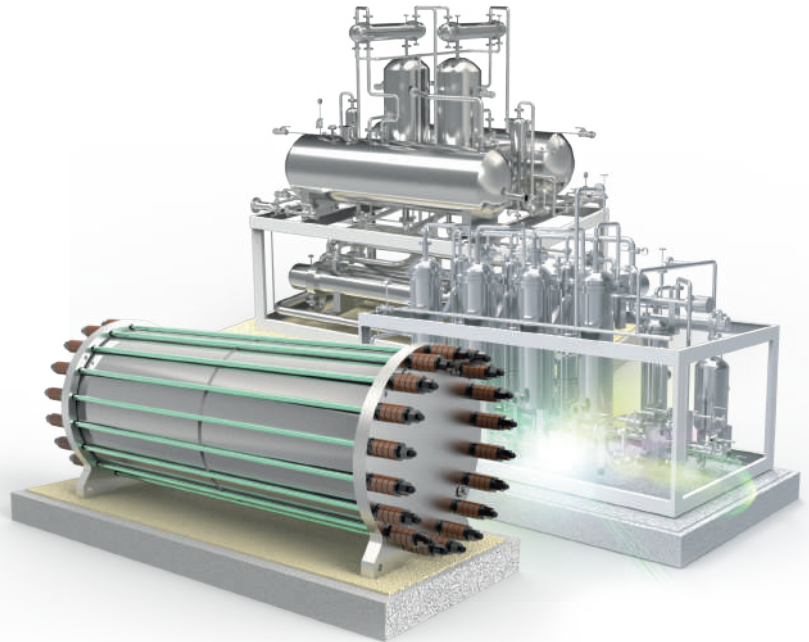
HPS-AW-25-SEP-AUX

### PRODUCT TECHNOLOGY

Alkaline

### PRODUCT PACKAGE

Electrolyzer Stack, Gas-Liquid Separator, Purification, Auxiliary system, Power supply unit



## Definition of the System

Efficient and reliable Alkaline Water Electrolyzer (AWE) complete with Gas-Liquid Separators, Purification Systems, and Auxiliary Units.

Single stack systems offer production capacities up to 1000 Nm<sup>3</sup>/h. For higher production capacities, multiple modules can be connected, achieving outputs up to 20 MW each.

## System & Product Certificates



## EFFICIENT, RELIABLE, & SCALABLE HYDROGEN PRODUCTION

### Key Features



#### High Efficiency

Industry-leading efficiency in converting electricity to hydrogen.



#### Comprehensive Integration

Combines electrolyzer stack, gas-liquid separators, purification systems, and auxiliary units in one solution.



#### Scalable Design

Modular architecture allows easy scaling from small to large production capacities.



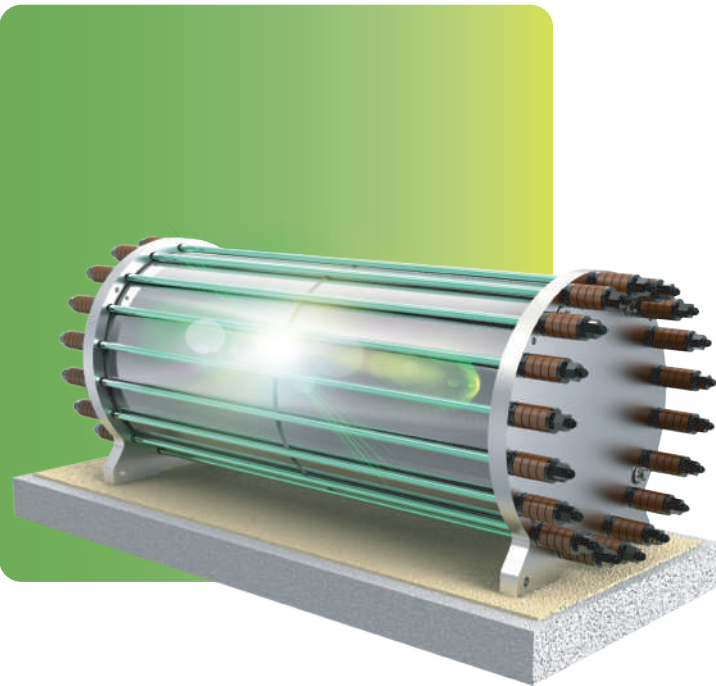
#### High Purity

Produces hydrogen with >99.999% purity.

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# Electrolyzer Stack

## HyMax



The electrolyzer stack features a series structure with one positive and two negative connections, operating at a pressure of 1.6 MPa. The alkaline electrolyzer stack provides substantial hydrogen production, high purity hydrogen, extended equipment lifespan, reliable operation, and low operational and maintenance requirements.

### Technical Parameters

Item	Unit	200/1.6	500/1.6	1000/1.6
Hydrogen production	Nm <sup>3</sup> /h	200	500	1000
Operating pressure	MPa(G)	1.6	1.6	1.6
Operating temperature	°C	85~92	85~92	85~92
Rated current	A(DC)	3500	6500	13000
DC Power consumption(BOL)	kWh/(Nm <sup>3</sup> H <sub>2</sub> )	≤4.3	≤4.3	≤4.3
DI Water consumption	l/h	≤180	≤450	≤900
KOH electrolyte concentration	wt%	30	30	30
Electrolyzer weight	kg	14700	35200	50000
Dimensions of electrolyzer	mm	3200*1649*1639	4200*2440*2355	6900*2440*2355