PEM - Electrolysers

PROTON EXCHANGE MEMBRANE

Gas Production	Hydrogen	Oxygen
Max. output pressure	30 barg	9 barg
Purity without additional purification	>99.9 %	>99.8 %

Hydrogen Drying System

Industrial drying system with automatic regeneration.
The hydrogen purity according to ISO 14687-2 for the use in fuel cell vehicles is met.

Max. hydrogen purity	99.999 %

Feeding Water (Tap Water)

Water quality acc.	98/83/EG	Pressure	2 to 6 bar
PH	4 to 10	Temperature	+5 to +35 °C
Water treatment	Integrated Reverse Osmosis System (ROS) + electro de-ionisation system		

Power Input

Voltage	From 400 V AC to high voltage Alternatively a transformer can be included
Frequency	50 Hz, 60 Hz

Safety Norms and Regulations

Compliance	Machine directive 2006/42/CE Pressurised equipment directive 2014/68/UE Low voltage directive 2014/35/UE Electromagnetic compatibility directive 2014/30/UE ATEX directive 2014/34/UE CE Mark

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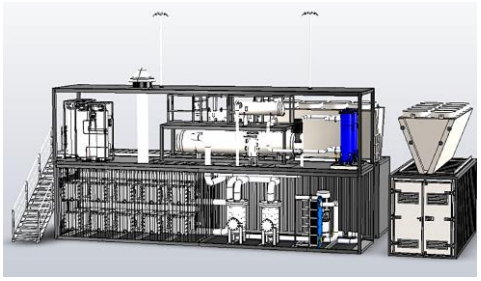
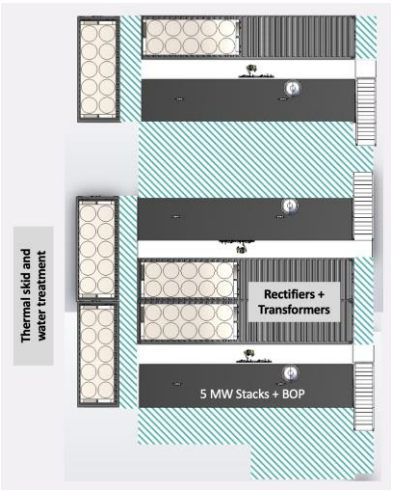
Our solutions





Specification	Semi-containerized Open Power System		Modular Open Power System
	E 500	E 1000	n x E 1000
Hydrogen Production			
H_2 flow rate [Nm^3/h]	500	1 000	< 4 000
Oxygen Production			
O_2 flow rate [Nm^3/h]	250	500	< 2 000
Operating range			
Hydrogen production [%]	5-100	5-100	5-100
Feeding Water			
Consumption [l/h]	<1 000	<2 000	<8 000
Installed Power			
Electrolysis [kW]	2 500	5 000	< 20 000
Power [kVA]	3 200	6 500	< 25 000
Specific Energy			
Stack consumption [kWh/Nm^3H_2]	4.4	4.4	4.4
System consumption [kWh/Nm^3H_2]	4.9	4.85	4.85
Footprint			
Dimensions	<30m²/MWel	<30m²/MWel	<30m²/MWel

More than 30 electrolysers delivered across Europe, Asia and US with project specific solutions

adaptation to other water quality on demand

waste heat recovery system

oxygen collection

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