

28⁺
YEARS
OF
EXCELLENCE



Hydrogen Generators

Purity : 99.995%
flow : 1.00 to 1000 Nm³/h
Pressure : 2 to 10 bar g

Summits for a sustainable planet

Summits AEM and PEM electrolyzers modules are the right choice if you are looking for a reliable and efficient way to produce green hydrogen from renewable energy sources.

In both our AEM and PEM electrolyzers the hydrogen is produced by passing an electric current through water. The current splits the water molecules into hydrogen and oxygen atoms. The hydrogen atoms are then collected on one side of the membrane, while the oxygen atoms are collected on the other side.

Our electrolyzers are highly efficient, reliable, and durable. They are also modular and scalable, making them easy to deploy and expand as needed.

What makes Us the Best Choice?



Complete Range of Products:

We specialize in building a whole range of products for compressed air purification and gas generation on a standard, custom built & turnkey basis.



In-house Production Capabilities:

Built across an area 68,000 ft² area, ours is a fully-equipped production facility. Having an all-inclusive facility helps us deliver products with the industry's best & highest standards.



Global Clientele:

Our products are up and running in many public and private sector organizations across the India as well as in SE Asia, EU, GCC, African Countries, and the USA.



State-of-the-art Infrastructure

Fully-equipped production facility built across an area of 68,000 ft²

Hydrostart



Summits's PEM electrolysers:

PEM stands for proton exchange membrane, a technology that uses a solid polymer membrane to split water into hydrogen and oxygen. Our PEM electrolysers are compact, modular, and scalable, ranging from 1 to 10,000 Nm³/h of hydrogen production capacity. They can operate at high pressures and respond quickly to changes in power input, making them ideal for grid balancing and energy storage applications. PEM electrolysers are highly efficient and reliable, and they are increasingly popular for hydrogen production applications. With our PEM electrolysers, you can benefit from lower operating costs, longer lifetime, and higher safety standards than conventional electrolysis methods. Contact us today to find out more about our PEM electrolyser models and how they can help you achieve your green hydrogen goals.

Features of Stacks



Purity:

Our stack module comprises of stacks that can deliver up to 99.999 %pure hydrogen under continuous operation.



High Quality Materials:

Our stack module comprises of stacks that can Our electrolyzers are manufactured using the highest quality materials and components and they are backed by a comprehensive warranty



High Efficiency:

Our PEM electrolyzers are known for their high efficiency and reliability and has a faradaic efficiency of up to 95%.



Low Maintenance:

Our electrolyser is designed for low maintenance and hundreds of start/stops.



Long Lifespan:

Our electrolyser is designed for low maintenance and hundreds of start/stops.



Comprehensive Warranty:

Our electrolyser is backed by a 1.5 – Year warranty



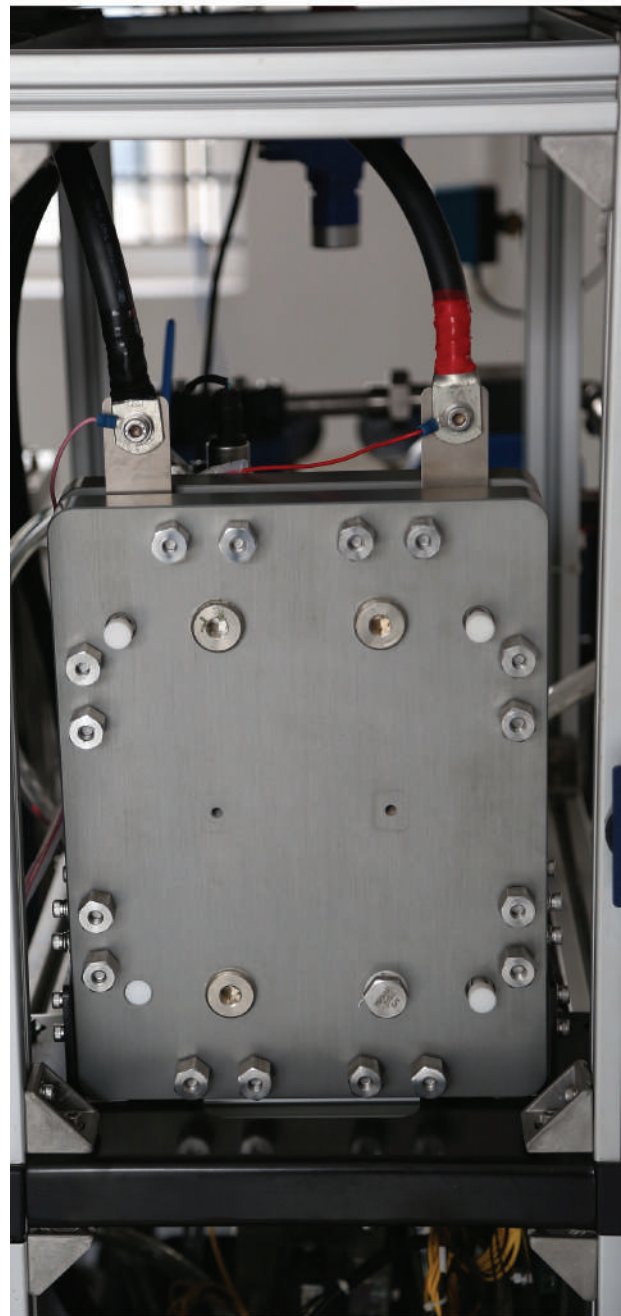
Monitoring:

Our stack module is equipped with state- of-the- art stack health and performance monitoring



Safety:

Our stack module will completely shut off on its own if there is any safety risk such as mixing of gases, pressure exception, temperature exception, water outage and/ or short circuit



Summits offers four series of electrolyzers:



HydroStart

Light commercial series



HydroEdge

Commercial series



HydroPro

Industrial series



HydroTitan

Heavy duty series

Each series is designed for a specific set of needs. For example, the HydroStart series is ideal for small businesses and organizations that need to produce hydrogen for on-site use. The HydroEdge series is designed for larger commercial applications, such as hydrogen refueling stations. The HydroPro series is designed for industrial applications, such as ammonia production and oil refining. And the HydroTitan series is designed for heavy duty applications, such as power generation and steelmaking.

Application

Transport



Trains



Maritime



Road freight



Road freight

Renewable energy has widely been heralded as the future for countries on the journey towards becoming net-zero emission economies

Power



- Flexibility
- Seasonal storage
- Peaking plants
- Power backup

Chemicals



- Fertilizers
- Plastics
- Fuel refining

Hydrogen has a wide-ranging and significant role to play in decarbonization efforts, as well as in building resilience to the impacts of climate change

Industries



- Paper
- Cement
- Food

Products



- Metallurgy
- Glass
- Appliances

End to End Solution

RO System

Hydrogen dryer

Oxygen dryer

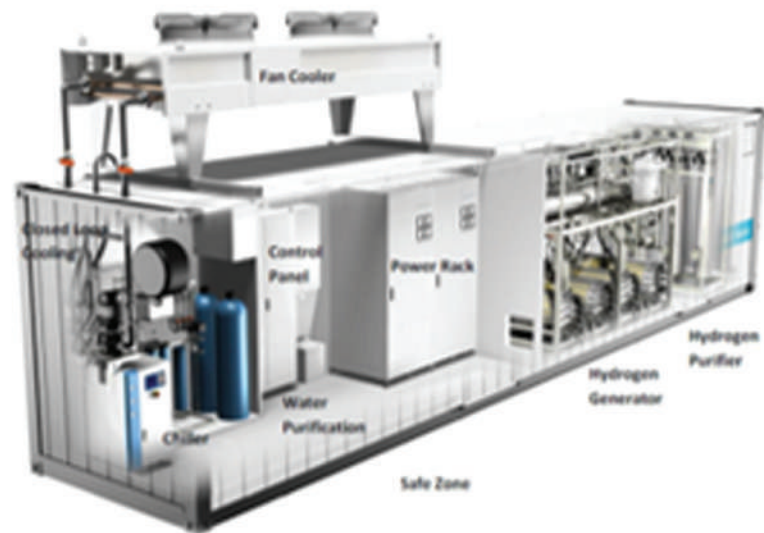
Sensor array water connectivity sensor, hydrogen purity sensor, Oxygen purity sensor, Temperature sensors with control loop pressure sensor, dew point sensor for hydrogen, dewpoint sensor for oxygen level sensor, cell voltage monitoring model stack health monitoring module and stack performance monitoring module

Hydrogen and Oxygen receiver tank

Smart PLC and remote monitoring

Safety alarms and safety valves

Cost effective owner supply unit and control electronics



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