

Unleash the Power of Alkaline Electrolysers : Reliable, Efficient, and Cost-Effective Hydrogen Production



Are you searching for a cutting-edge solution to meet your hydrogen production needs?

Look no further! Our alkaline electrolysers offer a superior technology with a range of benefits that make them the ideal choice for various applications.

15% ^{H₂}

Producing hydrogen up to 15% efficiently than PEM and other alkaline electrolysers.

10% ⚡

Saves approximately 10% electricity more than other electrolyser technologies when electricity is the sole input source

70% 

Our products are proudly designed and manufactured in India.

Products

MODEL	INFI-100N	INFI-200N	INFI-300N	INFI-500N	INFI-1000N
H ₂ Production/Hr-NM ³	100	200	300	500	1000
O ₂ Production / Hr-NM ³	50	100	150	250	500
H ₂ Pressure Bar (g)	28	28	28	27	27
O ₂ Pressure Bar (g)	30	30	30	29	29
H ₂ Purity Ex-Electrolyser % v/v	99.9				
O ₂ Purity Ex-Electrolyser % v/v	98				
H ₂ Purity Final % v/v	99.99 (standard) / 99.999 (on request)				
O ₂ Content Final >	100 ppm				
Dew Point Final (ADP) >	60 (Standard) / 70 (on request)				
DC Power Consumption by Stack (kWh)	4.8	4.8	4.8	4.7	4.7
Stack Efficiency (NM ³ / kWh) %	85	85	85	85	85
Turn Down %	50-100 (Standard) / 30-100 (on request)				
Run Hour	8000				
Ambient Temperature °C	10-50 (Standard) / Others on request				
Altitude: MSL (Mean Sea Level)	1000 (Standard) / Other on request				

Note: · NM³> 1ATM Pressure at 0°C Temp. · ADP: Atmospheric Dew Point. · Custom built on request.
 · 1 kg of Hydrogen> 11.126 Normal Meter-cube (NM³) · Lower Capacity on request.

Key Highlights

Reliability and Durability:

Our electrolyzers are engineered for longevity. With a robust design and the utilization of stable alkaline electrolytes, such as potassium hydroxide (KOH), our systems boast a track record of over 10 years of reliable operation. Say goodbye to frequent maintenance and enjoy a durable solution that with stands a wide range of operating conditions.

Cost-Effectiveness:

Our alkaline electrolyzers leverage nickel-based catalysts and abundant, low-cost materials, providing a significant cost advantage over proton exchange membrane (PEM) electrolyzers. By using economical nickel catalysts and alkaline electrolytes, we ensure a cost-effective solution for your hydrogen production requirements.

Flexibility in Operation:

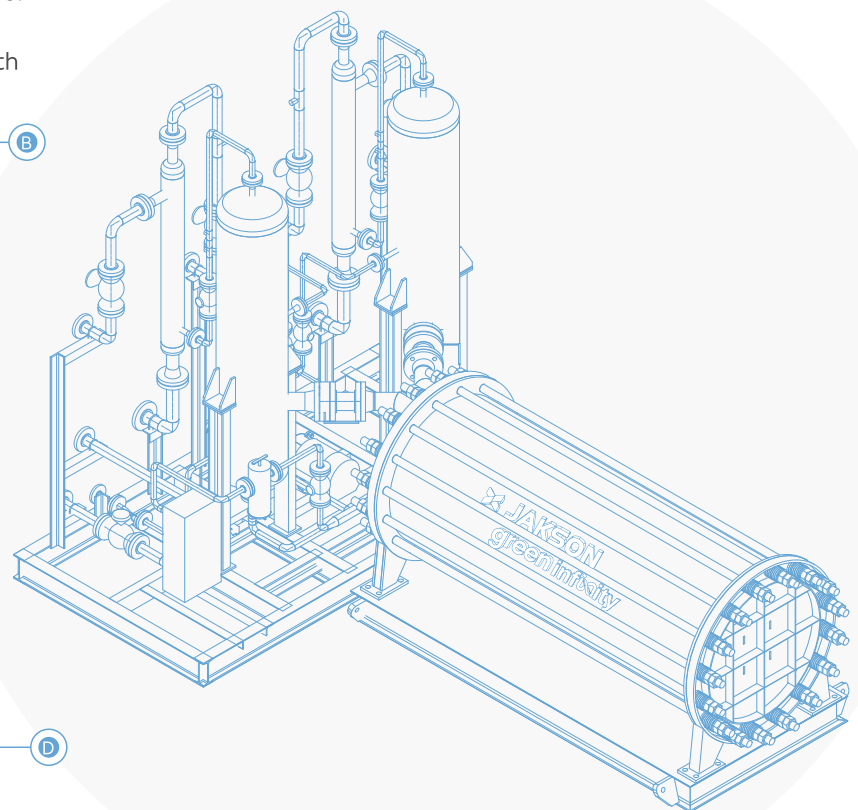
Our alkaline electrolyzers provide unparalleled flexibility. They excel at operating efficiently across a broad range of current densities, allowing for seamless adaptation to fluctuating power demands. Whether you require high or low power outputs, our electrolyzers deliver optimal performance, making them ideal for grid-scale energy storage and industrial hydrogen production.

Powerful and Scalable:

Embrace the potential of large-scale applications with our alkaline electrolyzers. Our systems are built to deliver high-capacity hydrogen production, making them suitable for industrial sectors such as ammonia production, refineries, and steel manufacturing. Join the ranks of successful enterprises that rely on our cost-effective and scalable solution for their hydrogen needs.

Safety Assured:

With our alkaline electrolyzers, safety is never compromised. The use of non-flammable and non-explosive alkaline electrolytes eliminates the risks associated with handling hydrogen and oxygen gases. Rest easy knowing that our electrolyser systems are designed for long-term safe operation.



Experience the advantages of alkaline electrolyzers and unlock the limitless possibilities of hydrogen production.

Contact us today to learn

how our reliable, efficient, and cost-effective solution can revolutionize your operations and drive sustainable success.

customer.support@jakson.com