



EMPOWER A GREENER FUTURE

Seamless Integration, Superior Safety:
Dependable Hydrogen for Every Experiment

Scientific Hydrogen Generator



Generator System

Hovogen LH PEM Scientific Hydrogen Generator 200-4000L/min

Can be customized according to application requirement



Generator System

Hovogen LX PEM Scientific Hydrogen Generator 200-4000L/min

Can be customized according to application requirement



- ✓ Remote monitoring function, automatic system control, 24-hour unattended safe and dynamic operation
- ✓ Adjustable operating conditions, allows prefabricated conditions
- ✓ hydrogen production pressure can reach 1.6Mpa

- ✓ Power supply output voltage, current, power monitoring and protection
- ✓ Temperature and pressure monitoring and protection
- ✓ Can be stacked in multiple units

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- ✓ Can be stacked in multiple units

LH Series Hydrogen Generator (200-4000 ml/min)

| | | |
|-----------------------------------|--|--|
| Hydrogen flow rate | ml/Min | 200, 400, 600, 800, 1200, 1600, 2000, 2500, 3000, 4000 |
| Oxygen flow rate | ml/Min | 0-2000 |
| Hydrogen Purity | % | >99.999 |
| Dimensions | mm | 500 X 400 X 505 |
| Operating Temperature | ml/Min | 5-60 |
| Operating Pressure | MPaG | ≤1.6 |
| Electrolyzed water inlet pressure | Barg | 1-4 |
| Supply Voltage (AC) | V | 110-220 |
| Startup Time | Sec | 12 |
| Electrolysis Efficiency | ml/Min | >77.7% HHV |
| Dew Point | °C | < -45 |
| Stackable Configurations | | ✓ |
| Application area | GC Applications, Spectroscopy Applications, Analyzer Applications, Chemical Vapor Deposition (CVD) Instrumentation, Auxiliary Deposition Processes | |



LX Series Hydrogen Generator (200-4000 ml/min)

| | | |
|-----------------------------------|--|--|
| Hydrogen flow rate | ml/Min | 200, 400, 600, 800, 1200, 1600, 2000, 2500, 3000, 4000 |
| Oxygen flow rate | ml/Min | 0-2000 |
| Hydrogen Purity | % | >99.99999 |
| Dimensions | mm | 500 X 400 X 505 |
| Operating Temperature | ml/Min | 5-60 |
| Operating Pressure | MPaG | ≤1.6 |
| Electrolyzed water inlet pressure | Barg | 1-4 |
| Supply Voltage (AC) | V | 110-220 |
| Startup Time | Sec | 12 |
| Electrolysis Efficiency | ml/Min | >77.7% HHV |
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COMPANY PROFILE



PRODUCTION BASE



Technical advantages

Master PEM water electrolysis hydrogen production core technology.

Supply chain supporting

R&d, production, sales and service quality supply chain system to shorten the development cycle;

Service advantages

High Standard, high quality, high efficiency, high cost-effective customer-centric, according to demand professional customization.

20000 m²/Production base
Lay the foundation for efficient production

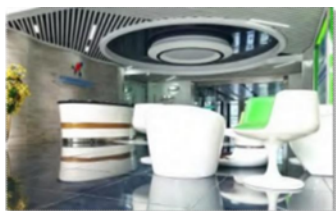
5500 m²/Diversity office
High-quality technology development space

500 m²/ Exhibition Hall
Provide the ultimate experience environment

PEM HYDROGEN ELECTROLYSER SUPPLIER

As a leading technology company in the hydrogen industry, we are driven by an unwavering commitment to the development and research of PEM (Proton Exchange Membrane) hydrogen electrolyzers and cutting-edge products. By leveraging our technical expertise, we are paving the way for a sustainable future.

HOVOGEN is a state-level high-tech enterprise dedicated to the advancement of the hydrogen energy industry. It operates research and development, production, and operational facilities in both the Songshan Lake Hi-Tech Industrial Development Zone and the Zhuzhou Hi-Tech Industrial Development Zone.



After 10 years of product development, testing, technology reserves and market docking, investment of more than 60 million yuan, has a complete independent intellectual property system, he has obtained many national invention patents in the field of PEM hydrogen production by water electrolysis and participated in the formulation of two national standards, have Rich Technical Research, product development, industrial production experience.



CORPORATE HONOR



To participate in the formulation of national standards

The company has participated in the formulation of two hydrogen production industry standards: technical requirements for hydrogen production system by pressure water electrolysis (GB/T 37562-2019) and safety requirements for hydrogen production system by pressure water electrolysis (GB/T37563-2019)



Passed ISO14001 Environmental Management System certification

Through ISO9001 Quality Management System certification

Occupational Health and Safety Management System certification



Obtained AAA Credit Rating Qualification Certificate Credit-abiding enterprises model units of credit management, quality service units of credit, Credit Enterprises, credit suppliers, credit enterprises



HOVOGEN obtained a number of PEM hydrogen electrolysis invention patents



Patent certificate



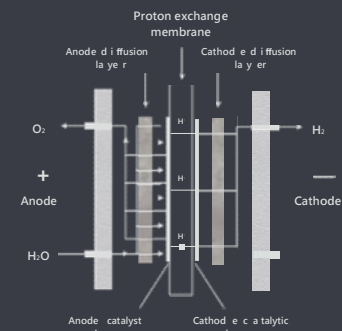
Authoritative Product Inspection Reports



Technology and products

Master PEM water electrolysis hydrogen production core technology

Compared with other water electrolysis technology, PEM can work at high current density, small size, high efficiency, the purity of hydrogen generated by up to 99.999%, is considered as the most promising water electrolysis technology. HOVOGEN hydrogen can improve the quality of PME water electrolysis cell by fine work, and strict process requirements, committed to become the world's leading PEM water electrolysis hydrogen production equipment provider.



A series of high- efficiency membrane elect rode preparation and production technology

Preparation and production technology of super corrosion resistant collector

High performance bi polar plate design technology and processing technology

High energy efficiency and high pressure resistance

Series PEM water elect rolytic reactor design and integrated test technology

P EM hydrogen production system design and system i ntegration technology

Self-developed PEM water electrolysis hydrogen production core products

Hydrogen production equipment

Hydrogen industrial PEME

Hydrogen PEME for consumer product

