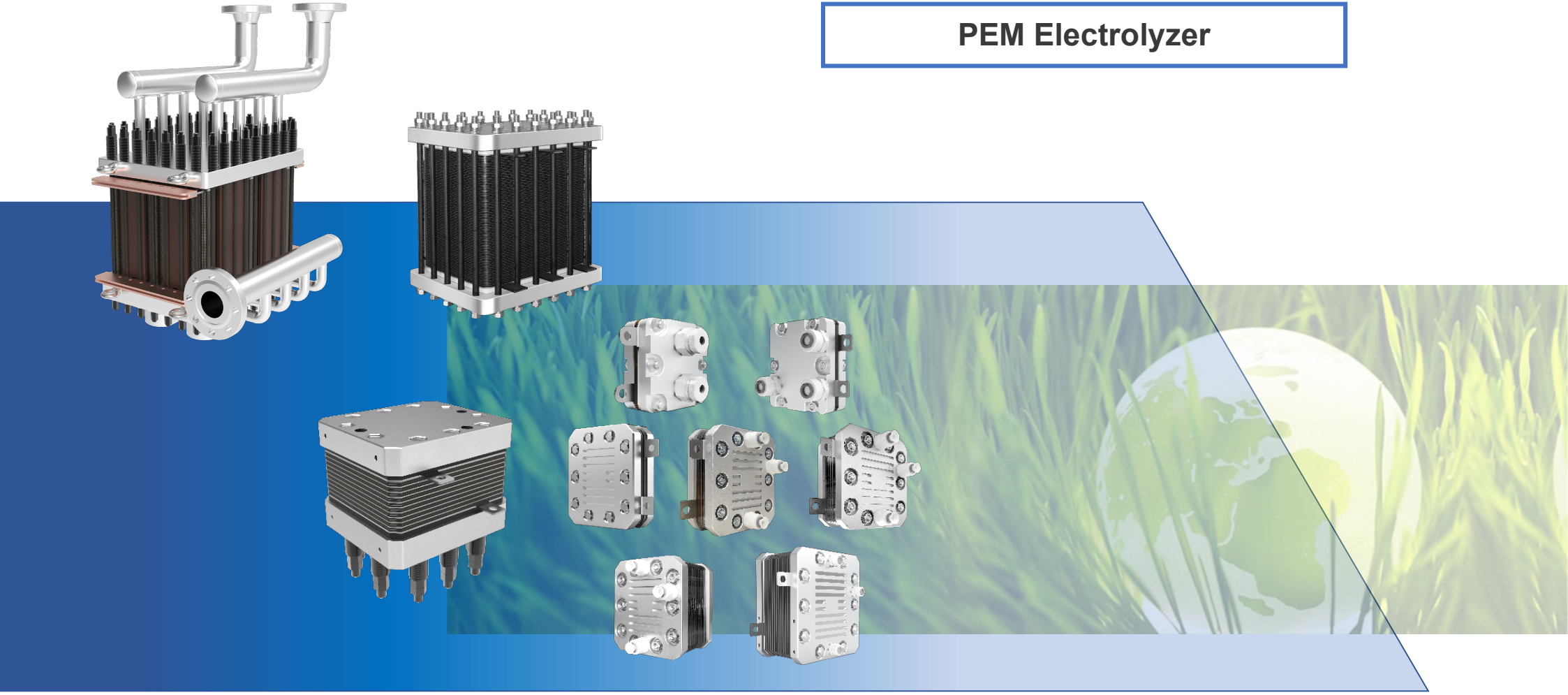
HOVOGEN

EMPOWER A GREENER FUTURE

Efficiency Meets Longevity: Reliable Hydrogen Generation for Every Need

PEM Electrolyzer



COMPANY PROFILE

PRODUCTION BASE

Technical advantages

Master PEM water electrolysis hydrogenproductioncore 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 m^2/Production base
Lay the foundation for efficient production

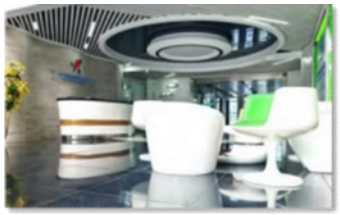
5500 m^2/Diversity office
High-quality technology development space

500 m^2/ 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 CertificateCredit-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

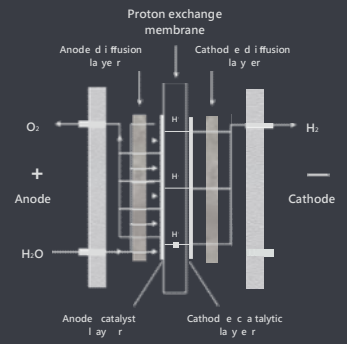
Patent certificate

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.

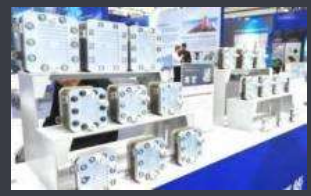


A series of high- efficiency membrane elect rode preparation and production technology	Preparation and production technology of super corrosion res istant col lector	High performance bi polar plate design technology and processi ng technology
High energy efficiency and high pressure resistance	Series PEM w ater elect rolyt ic reactor design and i ntegrated test technology	P EM hydrogen production system design and system i ntegrat ion technology

Self-developed PEM water electrolysis hydrogen production core products

Hydrogen production equipment	Hydrogen industrial PEME	Hydrogen PEME for consumer product

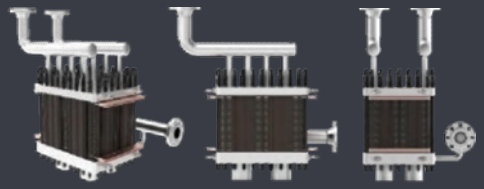





MW class electro lysor

PEME 200Nm³/h

Can be customized according to application requirement



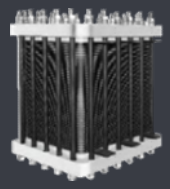
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

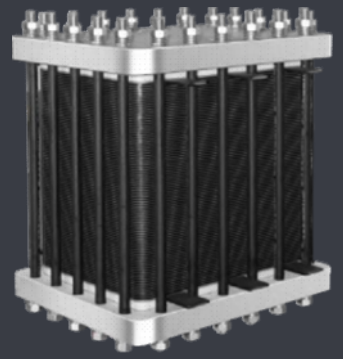
CH-200Nm³/h type PEME				
Oxygen flow rate		Nm³/h	100	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	200	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	200	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	4000-4500	
Dimensions (without lugs)		mm	970×805×1205	
Dimensions (including lugs and fittings)		mm	970×905×1205	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

MW class electro lysor

PEME 60Nm³/h

Can be customized according to application requirement





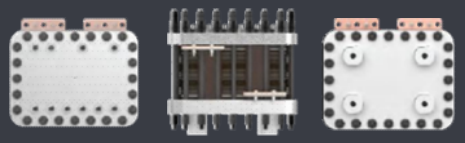
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

CH-60Nm³/h type PEME				
Oxygen flow rate		Nm³/h	30	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	60	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	60	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	4000-4500	
Dimensions (without lugs)		mm	970×805 ×855	
Dimensions (including lugs and fittings)		mm	970×905 ×855	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size electrolysor

PEME 10Nm³/h

Can be customized according to application requirement



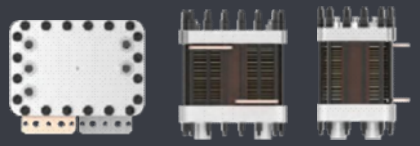
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

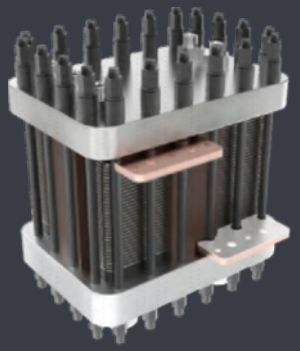
CH-10Nm³/h type PEME				
Oxygen flow rate		Nm³/h	5	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	10	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	10	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	442 ×335 ×430	
Dimensions (including lugs and fittings)		mm	442 ×375 ×430	
Weight		kg	120	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size electrolysor

PEME 5 Nm³/h

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

CH-5Nm³/h type PEME				
Oxygen production		Nm³/h	2.5	Hydrogen is mixed with oxygen
Hydrogen production		Nm³/h	5	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	5	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	382×280×431	
Dimensions (including lugs and fittings)		mm	382×324.5×431	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size

PEME 4 Nm³/h

Can be customized according to application requirement

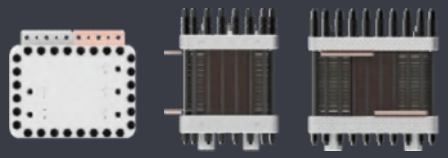
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

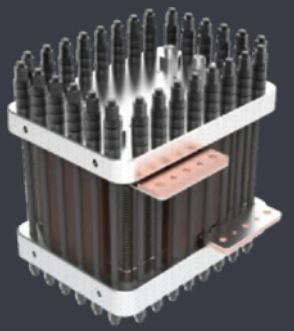
CH-4Nm³/h type PEME				
Oxygen flow rate		Nm³/h	2	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	4	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	5	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	382 ×280 × 396	
Dimensions (including lugs and fittings)		mm	382 ×324 .5 ×396	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size

PEME 3 Nm³/h

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

CH-3Nm³/h type PEME				
Oxygen flow rate		Nm³/h	1.5	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	3	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	3	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	382 ×280 × 357	
Dimensions (including lugs and fittings)		mm	382 ×324 .5 ×357	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size

PEME 2 Nm³/h

Can be customized according to application requirement

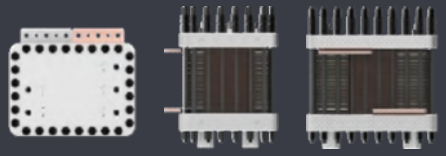
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

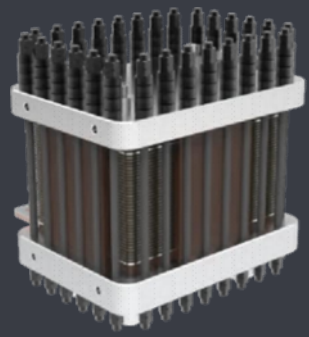
CH-2Nm³/h type PEME				
Oxygen flow rate		Nm³/h	1	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	2	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	2	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	382×280×321	
Dimensions (including lugs and Þttings)		mm	382×324.5×321	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

Medium size

PEME 1 Nm³/h

Can be customized according to application requirement





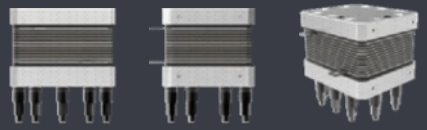
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability
- It can adapt to wide power fluctuation

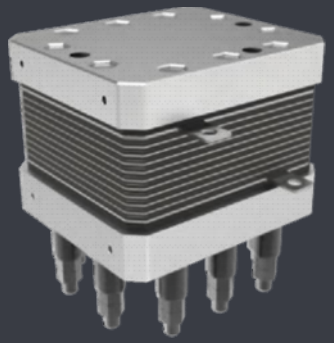
CH-1Nm³/h type PEME				
Oxygen flow rate		Nm³/h	0.5	Hydrogen is mixed with oxygen
Hydrogen flow rate		Nm³/h	1	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		L/h	1	Pure Water, deionized water
Circular manner		/	Pump circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤ 1	Pure water system
	Cathode water	PPM	/	
Constant current		A	355	
Dimensions (without lugs)		mm	382×280×290	
Dimensions (including lugs and Þttings)		mm	382×324.5×290	
Weight		kg	/	
Application area		On-site hydrogen production in large scale energy storage, chemical industry, fuel cell system, hydrogen production-hydrogenation station, medicine and other industries		

small and medium-size

PEME 7000mL/ min

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CHL7-7000mL/min type PEME				
Oxygen flow rate		ml/min	3500	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	7000	Pure hydrogen, single out
Temperature of circulating water		℃	25-70	
Water consumption		ml/min	≤2300	Pure Water, deionized water
Circular manner		/	Natural circulation	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	3.5	
TDS	Anode water	PPM	≤1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	80	
	Constant current voltage	V	40	
Dimensions (without lugs)		mm	136×135×150	
Dimensions (including lugs and Þttings)		mm	156×149×220	
Weight		kg	/	
Application area		Smal hydrogen production-hydrogenation machine, fuel cell backup power supply, semiconductor, electron/photoelectron, multi-energy Complementary Indepe ndent micro - networ k, pharmaceutical and other industries on - site hydrogen production.		

Product Advantage

Laser-focused on technical quality, Hovogen elevates its PEM water electrolysis equipment to new heights of unparalleled efficiency and reliability. Leveraging innovations, the company empowers large-scale clean hydrogen supply, a cornerstone in the global transition to sustainability.

Driven by green "Carbon Neutral" commitments and a client-centric approach, Hovogen delivers exceptional service and customized solutions that unlock unparalleled value for customers. Redefining corporate responsibility, they power a cleaner, more sustainable future.

PEM water electrolyzer advantages

Produce high-purity hydrogen

The purity of the produced hydrogen is greater than 99.999%, and the dew point is less than -74 C.

High* pressure *hydrogen production

Hydrogen production pressure can reach 3.5Mpa

High performance

Excellent stability, conductivity, robust quality, and superior thermal stability, allow high current densities while offering minimal proton conduction resistance, leading optimised energy consumption.

High Purity & High Pressure

Adjustable hydrogen output ensuring a fully sealed system for enhanced purity. High-pressure hydrogen, making it a versatile and efficient solution for a wide range of applications.

Customisable specifications

Patented product, can be customised according to specific requirement

Consumer application of PEM water electrolytic cell

Hydrogen-rich water machine

Hydrogen health products

Small size

PEME 5000mL/ min

Can be customized according to application requirement

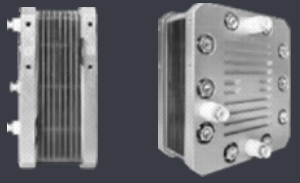
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

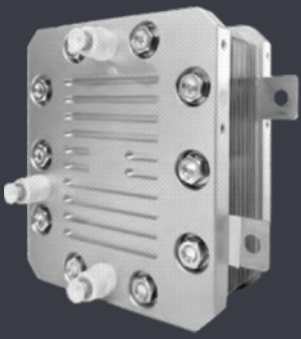
CHL13-1 type PEME				
Oxygen flow rate		ml/min	> 2500	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 5000	Pure hydrogen, single out
Temperature of circulating water		℃	25-50	
Water consumption		ml/min	≤2500	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.55	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	55	
	Constant current voltage	V	39	
Dimensions (without lugs)		mm	136×87×156	
Dimensions (including lugs and fittings)		mm	157×104×156	
Weight		kg	/	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 3200mL/ min

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CHL8-1 type PEME				
Oxygen flow rate		ml/min	>1600	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 3200	Pure hydrogen, single out
Temperature of circulating water		℃	25-50	
Water consumption		ml/min	≤1400	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.55	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	55	
	Constant current voltage	V	39	
Dimensions (without lugs)		mm	136×87×156	
Dimensions (including lugs and Þttings)		mm	157×104×156	
Weight		kg	/	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 2000mL/ min

Can be customized according to application requirement

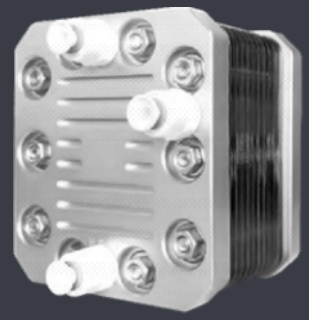
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CHL5-1 type PEME				
Oxygen flow rate		ml/min	> 1000	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 2000	Pure hydrogen, single out
Temperature of circulating water		℃	25-50	
Water consumption		ml/min	≤500	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.55	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	55	
	Constant current voltage	V	15	
Dimensions (without lugs)		mm	136×53×156	
Dimensions (including lugs and Þttings)		mm	157×68×156	
Weight		kg	/	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 2000mL/ min

Can be customized according to application requirement



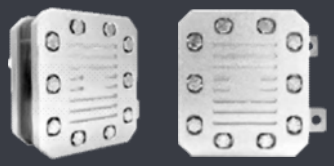
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

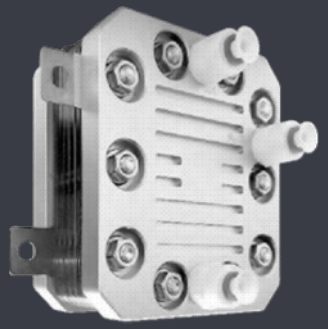
CH11-1 type PEME				
Oxygen flow rate		ml/min	> 1000	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 2000	Pure hydrogen, sing e out
Temperature of circulating water		℃	25-50	
Water consumption		ml/min	≤350	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	25	
	Constant current voltage	V	33	
Dimensions (without lugs)		mm	94×75×106	
Dimensions (including lugs and Þttings)		mm	109×92×106	
Weight		kg	1.75	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 1200mL/ min

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH7-1 type PEME				
Oxygen flow rate		ml/min	> 600	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 1200	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≤350	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	25	
	Constant current voltage	V	21	
Dimensions (without lugs)		mm	94×58×106	
Dimensions (including lugs and fittings)		mm	109×73×106	
Weight		kg	1.33	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 1000mL/ min

Can be customized according to application requirement

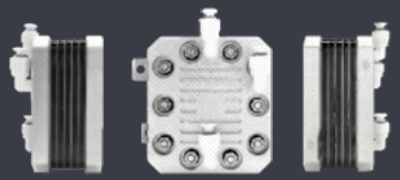
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH6-1 type PEME				
Oxygen flow rate		ml/min	> 500	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 1000	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≤200	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	25	
	Constant current voltage	V	18	
Dimensions (without lugs)		mm	94×52×106	
Dimensions (including lugs and fittings)		mm	109×68×106	
Weight		kg	1.3	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 800mL/ min

Can be customized according to application requirement



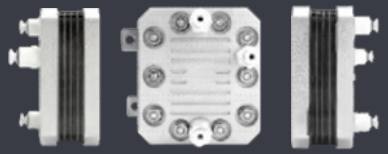
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

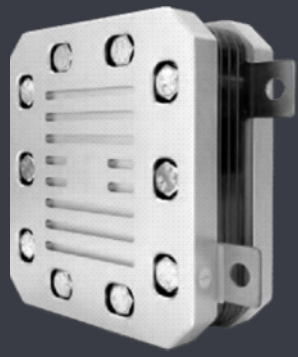
CH5-1 type PEME				
Oxygen flow rate		ml/min	> 400	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 800	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≤200	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	25	
	Constant current voltage	V	15	
Dimensions (without lugs)		mm	94×48×106	
Dimensions (including lugs and fittings)		mm	109×64×106	
Weight		kg	1.2	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 600mL/ min

Can be customized according to application requirement





- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH4-1 type PEME				
Oxygen flow rate		ml/min	> 300	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 600	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≤150	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	20	
	Constant current voltage	V	12	
Dimensions (without lugs)		mm	94×43×106	
Dimensions (including lugs and fittings)		mm	109×62×106	
Weight		kg	1.15	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 300mL/ min

Can be customized according to application requirement

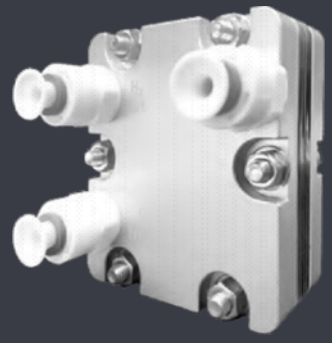
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH2-1 type PEME				
Oxygen flow rate		ml/min	> 150	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 300	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≮80	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	20	
	Constant current voltage	V	6	
Dimensions (without lugs)		mm	94×34×106	
Dimensions (including lugs and Þttings)		mm	109×53×106	
Weight		kg	0.9	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 200mL/ min

Can be customized according to application requirement



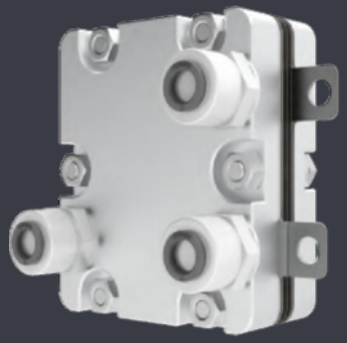
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH02-1 type PEME				
Oxygen flow rate		ml/min	> 100	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 200	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≮60	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	15	
	Constant current voltage	V	6	
Dimensions (without lugs)		mm	60×30.8×70	
Dimensions (including lugs and Þttings)		mm	72×46.5×70	
Weight		kg	0.7	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 100mL/min

Can be customized according to application requirement



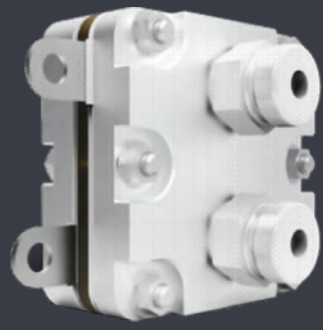
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH01-1 type PEME				
Oxygen flow rate		ml/min	> 50	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 100	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≤60	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electrolysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.5	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	15	
	Constant current voltage	V	3	
Dimensions (without lugs)		mm	60×26×70	
Dimensions (including lugs and Þttings)		mm	72×41.9×70	
Weight		kg	0.6	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		

Small size

PEME 60mL/min

Can be customized according to application requirement



- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH60-1 type PEME				
Oxygen flow rate		ml/min	> 30	Hydrogen is mixed with oxygen
Hydrogen flow rate		ml/min	> 60	Pure hydrogen, single out
Temperature of circulating water		℃	25-40	
Water consumption		ml/min	≤60	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	99.99	After drying
Water electrolysis method		/	Water electro ysis	Proton exchange membrane electrolysis
Maximum stress		Mpa	0.3	
TDS	Anode water	PPM	≤ 1	Recommended Ion-exchange resin for circulating water
	Cathode water	PPM	/	
Single cell voltage		V	1.75-2.5	
Power supply	Constant current	A	8	
	Constant current voltage	V	3	
Dimensions (without lugs)		mm	50×38.8×60	
Dimensions (including lugs and Þttings)		mm	65×71.6×60	
Weight		kg	0.244	
Application area		GC (gas phase) gas and carrier gas, ELCD (conductivity detector) reaction gas, Ed (atomic emission spectrum detector) reaction gas, hydrogen-rich water machine, hydrogen absorber, etc.		