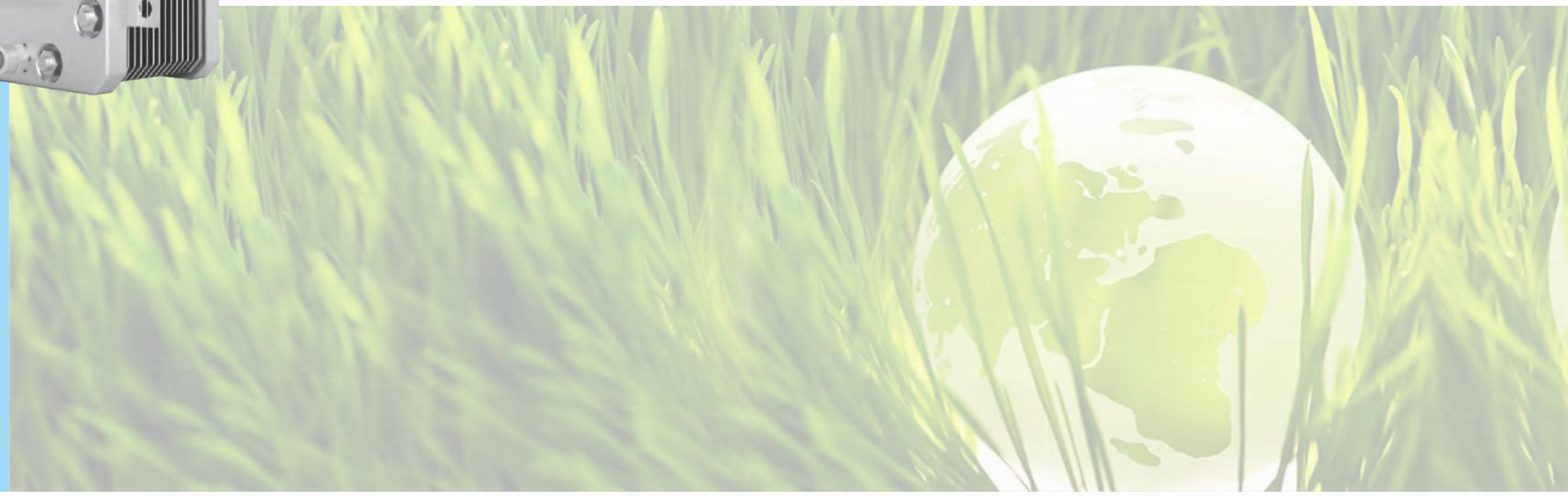
HOVOGEN

EMPOWER A GREENER FUTURE

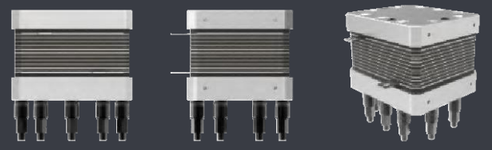
Cutting-edge hydrogen generators and electrolysers for unparalleled efficiency and sustainability

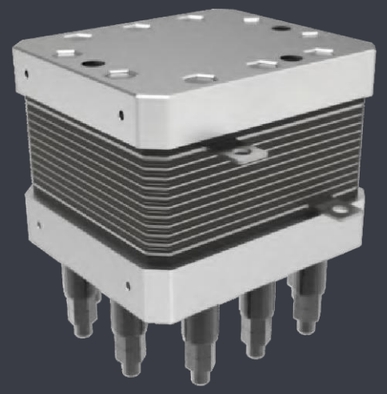


small and medium-size

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 production		ml/min	10500	Hydrogen is mixed with oxygen
Hydrogen production		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		Small hydrogen production-hydrogenation machine, fuel cell backup power supply, semiconductor, electron/photoelectron, multi-energy Complementary Independent micro-network, 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
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  Long service life
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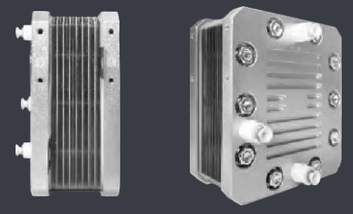
  Low power consumption, voltage stability

CHL13-1 type PEME				
Oxygen production		ml/min	> 7500	Hydrogen is mixed with oxygen
Hydrogen production		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



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  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 production		ml/min	>7500	Hydrogen is mixed with oxygen
Hydrogen production		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

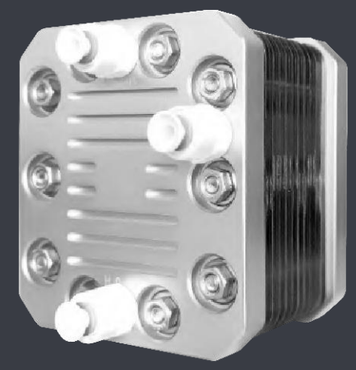
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CHL5-1 type PEME				
Oxygen production		ml/min	> 3000	Hydrogen is mixed with oxygen
Hydrogen production		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
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  Long service life
- High pressure resistance
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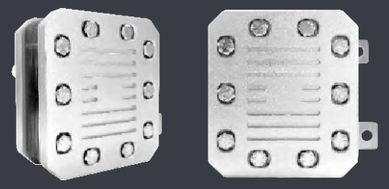
  Low power consumption, voltage stability

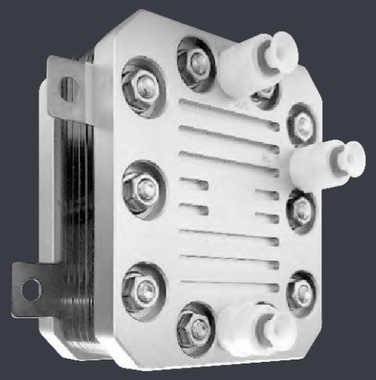
CH11-1 type PEME				
Oxygen production		ml/min	>3000	Hydrogen is mixed with oxygen
Hydrogen production		ml/min	>2000	Pure hydrogen, single out
Temperature of circulating water		℃	25-50	
Water consumption		ml/min	≤350	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	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
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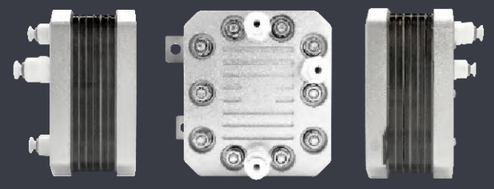
  Low power consumption, voltage stability

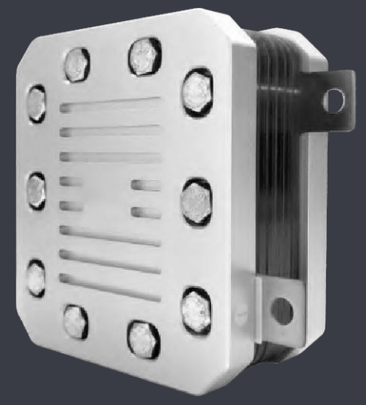
CH7-1 type PEME				
Oxygen production		ml/min	> 1800	Hydrogen is mixed with oxygen
Hydrogen production		ml/min	> 1200	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≮350	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	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 Pttings)		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





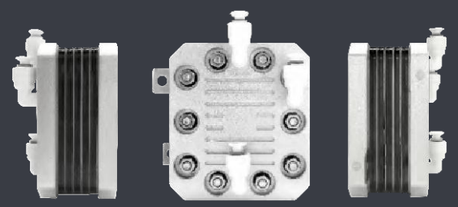
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH6-1 type PEME				
Oxygen production		ml/min	> 1500	Hydrogen is mixed with oxygen
Hydrogen production		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 Pttings)		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



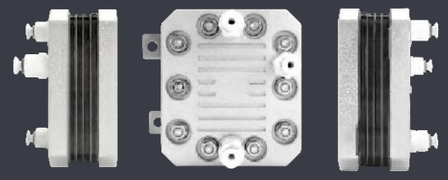
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

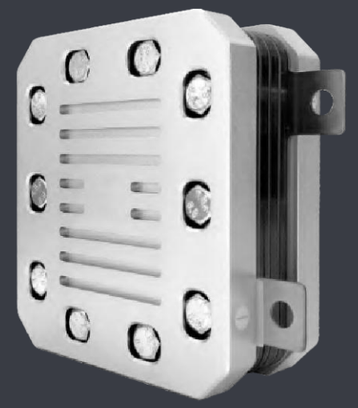
CH5-1 type PEME				
Oxygen production		ml/min	> 1200	Hydrogen is mixed with oxygen
Hydrogen production		ml/min	> 800	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≮200	Pure Water, deionized water
Circular manner		/	The water cycle	
Hydrogen purity		%	99.99	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 Þttings)		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 production		ml/min	> 900	Hydrogen is mixed with oxygen
Hydrogen production		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 Þttings)		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

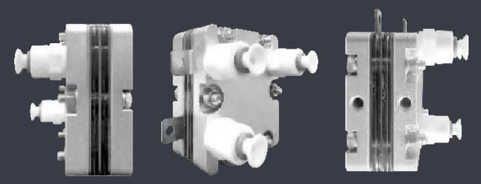
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

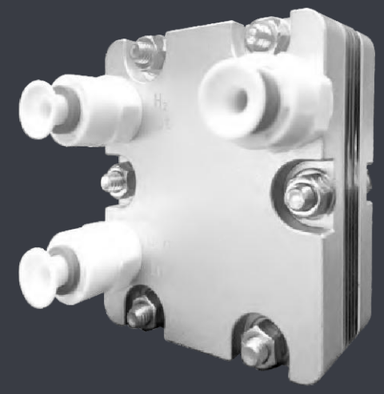
CH2-1 type PEME				
Oxygen production		ml/min	> 450	Hydrogen is mixed with oxygen
Hydrogen production		ml/min	> 300	Pure hydrogen, single out
Temperature of circulating water		℃	25-45	
Water consumption		ml/min	≮80	Pure Water, deionized water
Circular manner		/	Gravity cycle/pump cycle	
Hydrogen purity		%	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





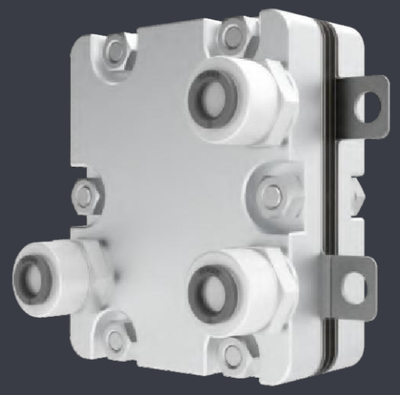
- Independent R & D and production
  Excellent material and fine workmanship
- High purity of hydrogen production
  Long service life
- High pressure resistance
  High pressure hydrogen can be produced
- High current density
  Low power consumption, voltage stability

CH02-1 type PEME				
Oxygen production		ml/min	> 300	Hydrogen is mixed with oxygen
Hydrogen production		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

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

CH01-1 type PEME				
Oxygen production		ml/min	> 150	Hydrogen is mixed with oxygen
Hydrogen production		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.		

CH60-1 type PEME				
Oxygen production		ml/min	> 90	Hydrogen is mixed with oxygen
Hydrogen production		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 electrolysis	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.		