



PROTON

THE LEADER IN **ON SITE** GAS GENERATION.

High Capacity Hydrogen Systems

M Series PEM Electrolysers



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With the growing need for a stable, cost-effective and high-volume hydrogen supply, critical industrial applications require turnkey solutions that provide safe, clean and reliable hydrogen.

- Ammonia Production
- Refining
- Heat Treating
- Float Glass Manufacturing
- Semiconductor Manufacturing
- Chemical Synthesis
- Hydrogenation
- Thermal Spray

The breakthrough M Series hydrogen generation system utilizes advanced Proton Exchange Membrane (PEM) water electrolysis technology to address global hydrogen needs.

FLEXIBILITY

- Small footprint
- Scalable modular design
- Indoor or outdoor options
- Simple installation requirements
- 0-100% variable output
- Instantaneous response to variable process demands

COST EFFICIENCY

- High purity and high pressure
- Fully automated system
- Remote monitoring and control
- Low cost compared to alternate hydrogen supply methods
- High efficiency
- Minimal annual maintenance

SAFETY

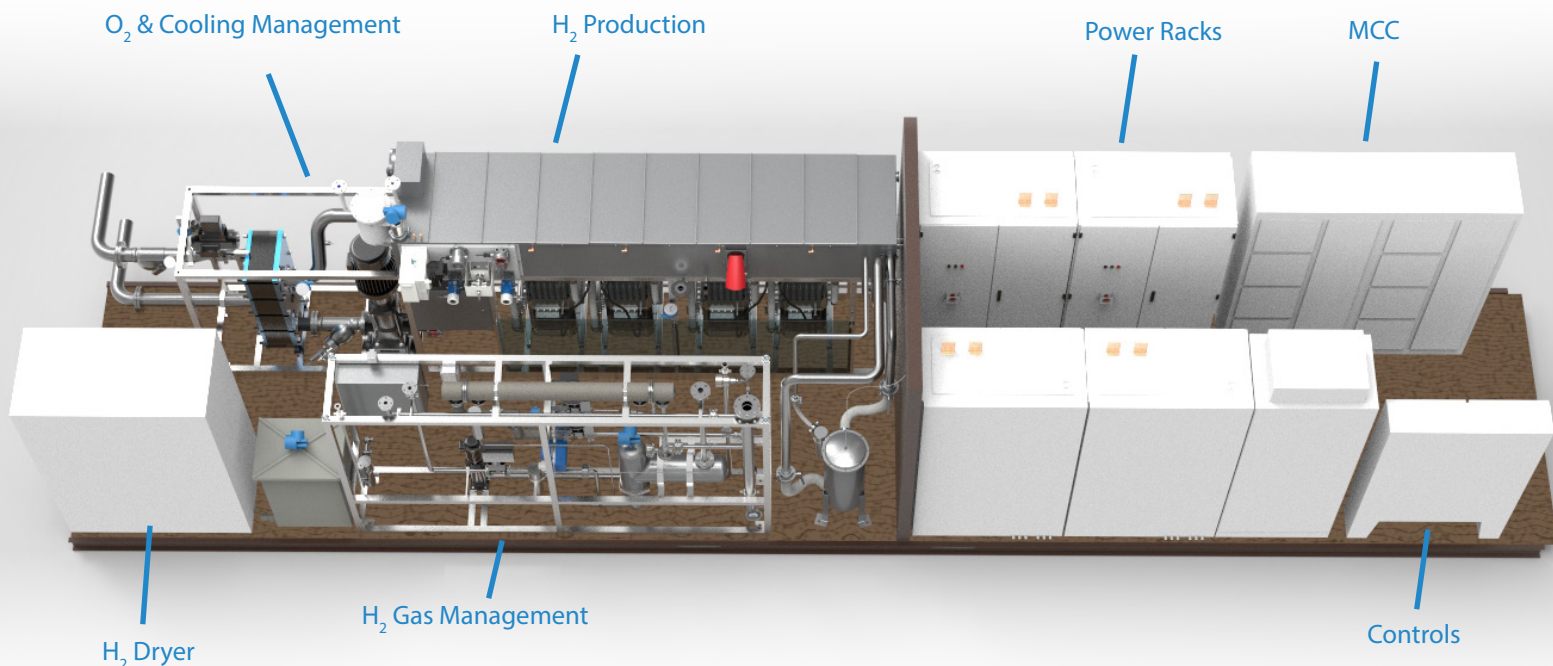
- No caustic material handling
- Uninterrupted supply
- Minimal storage and handling
- Advanced differential pressure design

RELIABILITY

- > 99% availability
- Power cycling without stack degradation
- Over 20 years of PEM experience
- More than 2500 systems installed
- Trusted by U.S., British and French militaries

LOW CARBON FOOTPRINT

- 100% emission-free with renewable energy
- Supports sustainability objectives



Containerized Solution of M200

MODEL	M100	M200	M400
Description	Large-scale, modular, skid-based, on-site hydrogen generator. Load following operation automatically adjusts input to follow supply or output to match demand.		
Electrolyte	Proton Exchange Membrane (PEM) - caustic-free		
Hydrogen Production*	100 Nm ³ /hr 216 kg per 24 hours	200 Nm ³ /hr 432 kg per 24 hours	400 Nm ³ /hr 864 kg per 24 hours
Delivery Pressure	30 barg / 435 psig		
Hydrogen Purity*	> 99.9995% (water vapor < 2 ppm, -72°C (-98°F) dewpoint, N2 < 2 ppm, O2 < 1 ppm, all others undetectable)		

* Each platform is scalable at 50 Nm³/hr increment.

* With hydrogen dryer

Summary specifications are subject to change. For full technical specifications, please contact Proton OnSite.

Proton Care

Global Service and Support Solutions

Proton OnSite is proud to offer products and services that assure a superior level of customer satisfaction. Our uncompromising attention to excellence and quality enables us to deliver, install and support gas generation solutions on every continent. With proven reliability and world-class coverage in over 75 countries, we continue to foster a strong network of lasting relationships with our customers.

Let us help you, visit www.protononsite.com to learn more!



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