

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!



High Capacity Hydrogen Systems M Series PEM Electrolysers



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

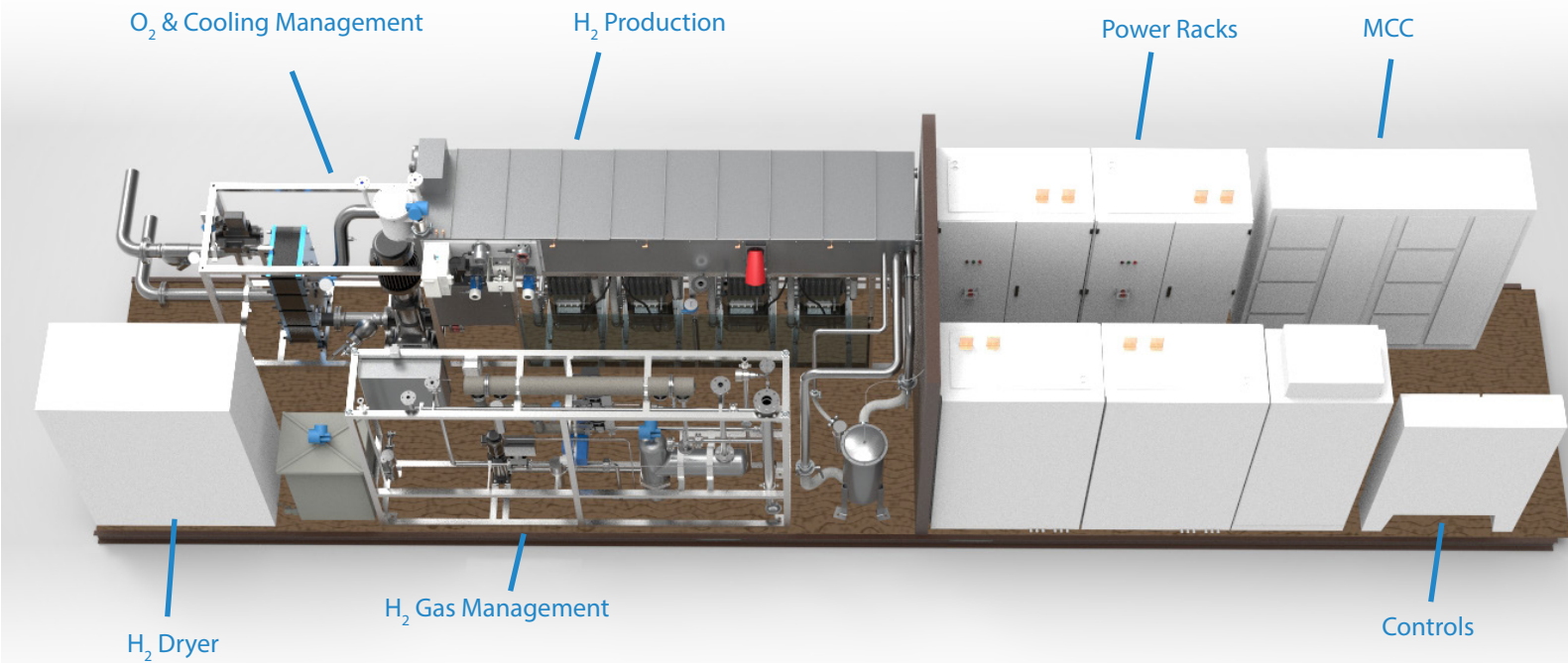
- No caustic material handling
- Uninterrupted supply
- Minimal storage and handling
- Advanced differential pressure design

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.