

On Demand H₂ Generation

HOGEN Hydrogen generator features & benefits

HOGEN hydrogen generators utilize PROTON's unique exchange membrane (PEM) electrolysis system and electricity to separate water into pure hydrogen and oxygen

Its unique design allows the HOGEN hydrogen generator to contain *virtually no stored hydrogen*, even when generating hydrogen at 228 scf / hr (6 Nm³/hr) – meeting the daily hydrogen requirements of power plants as large as 4,000 MW



- Pure hydrogen at process pressure – up to 435 psig (30 bar) and a dew point of -85°F / -65°C, 99.9995% purity without compressor
- Low-cost H₂ supply – offering a 2- to 3-year payback
- Fast and easy installation – up and running in a day
- Small footprint – fraction of space needed for cylinder or trailers
- Remote monitoring and alarms
- Increased safety – no caustic chemicals; hydrogen in unit amounts to less than 2% of hydrogen stored in standard cylinder
- Low maintenance – requires as little as 4 hours of maintenance per year
- Reliable supply of hydrogen – field-proven reliability
- Automated, unattended operation

Typical power plant implementation

