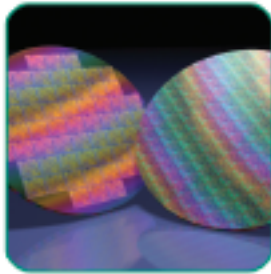


HOGEN[®]

Hydrogen Generation Systems for High Purity Industrial Applications



Proton HOGEN® onsite hydrogen generators are a safe and cost-effective approach to providing high purity hydrogen for industrial applications. With more than 1200 systems installed in 56 countries on all seven continents, our HOGEN hydrogen generators are creating value around the world.

Proton HOGEN® onsite hydrogen generators offer clear advantages over older, conventional methods of hydrogen delivery. Our industrial customers are able to realize a rapid payback while dramatically improving plant safety by minimizing storage and handling. In addition, our compact systems are easy to install and require minimal maintenance.

Find the Right Fit for Your Application

Proton HOGEN® onsite hydrogen generation systems are designed to meet the specific needs of high purity industrial applications, ranging from heat treating and materials processing to semiconductor manufacturing and epitaxy.

HOGEN H Series

The HOGEN H Series hydrogen generator has an output capacity of 76 - 228 SCF/hr (2 - 6 Nm³/hr). The modular design of the HOGEN H Series hydrogen generator offers the capability to expand hydrogen output simply by adding additional proton exchange membrane (PEM) electrolysis stacks to an existing HOGEN hydrogen generator.

HOGEN S Series

The HOGEN S Series hydrogen generator meets hydrogen requirements of 10 - 40 SCF/hr (0.25 - 1.0 Nm³/hr). With hundreds of units installed in the field, the HOGEN S Series hydrogen generator offers a proven, cost effective method of supplying high purity hydrogen for diverse applications.

HOGEN Hydrogen Generator Features & Benefits

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

“By making hydrogen gas onsite, our remotely located facility has achieved independence from the high costs of hydrogen delivery.

The HOGEN H 6M hydrogen generator supplies our sintering furnaces with a pure, reliable supply of hydrogen gas that automatically adjusts to our process demands. I'd encourage others to consider this technology – it's worked very well for us!”

Mark Eisenmann, President,
Chand Eisenmann Metallurgica,
Caribou, Maine



PD-0600-0066 Rev. A, 10.08
© 2008 Proton Energy Systems, Inc. All Rights Reserved.
Proton, Proton Energy Systems, the Proton symbol, and HOGEN are registered trademarks of Proton Energy Systems, Inc.

