

Keep your application online with our reliable, cost-effective APEX Industrial Hydrogen Services



In today's competitive environment, you can't afford to be without hydrogen—but you may not want to expand your plant just to meet intermittent supply needs. Or perhaps you need a backup hydrogen source. Air Products' Express (APEX) Industrial Hydrogen Services offers fast and flexible temporary supply of high-quality hydrogen to help keep you online—saving you time and money.

Flexible supply options

From tube trailers to vaporized liquid supply to our patented Cryogenic Hydrogen Compressor (CHC) mobile liquid supply system, we offer a full spectrum of supply options for planned or unplanned reformer outages, peak shaving, production trials and plant commissioning. Whether you need hydrogen for three days or six months, from 100,000 cubic feet/day to 5 million, up to 5,000 psi, we can recommend a solution to meet your flow rate, pressure, and duration requirements.

We can provide hydrogen backup for your:

Ultralow-sulfur diesel hydrotreater (ULSD)
Ultralow-sulfur gasoline hydrotreater (ULSG)
Isomerization unit
Benzene saturation unit
Spot chemical applications
Hydrogen fuel cell applications
Aerospace applications
Power applications
Research and development needs
Submarine/rocket launch tube pressurization
Food processing applications

Fast service helps minimize downtime

Call our 1-800-APEXGAS hotline 24/7 for a quick commitment. As the world leader in hydrogen supply, we can draw on our extensive infrastructure of strategically located hydrogen plants to respond rapidly. Typically, we can start supplying your hydrogen needs within 24 hours of arriving at your site.

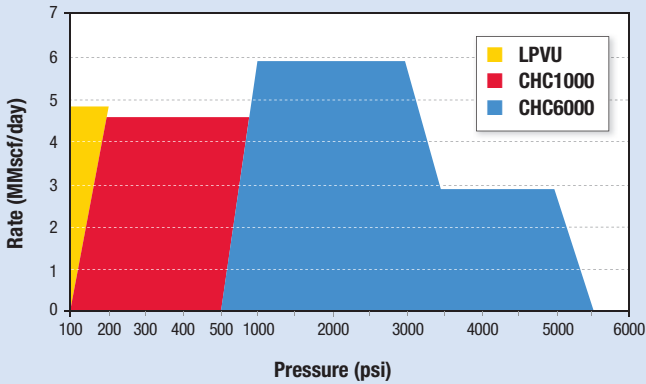
Proven performance

In the early 1960s, Air Products pioneered the use of large volumes of hydrogen for the space program in collaboration with the U.S. Air Force, and we developed the concept of liquid hydrogen pumping systems in the 1970s. Since then, we have enjoyed a long and successful history of providing spot liquid hydrogen service for refineries and chemical plants for both planned and unplanned needs. Many customers have asked us to support their needs year after year; we will gladly provide a reference list upon request. We do what it takes.



Our proprietary skid-mounted Cryogenic Hydrogen Compressor consists of a tanker and a stationary pumper unit. Depending on your requirements, it can provide a cost-effective alternative to other temporary hydrogen supply modes.

APEX Hydrogen Solutions



APEX Hydrogen Services offers supply options to meet a wide range of flow and pressure requirements. The most economical option depends on your specific needs and proximity to one of our production or redistribution facilities.

Focus on safety

Air Products is proud to maintain the best safety record in the industrial gas industry. On average, the operators of our mobile hydrogen pumping unit have over 15 years of experience with the system. Our APEX Hydrogen Services are engineered for safety, with features that include:

- Self-contained pressure control systems with purge connections to the mobile vent stack
- Minimal venting
- Pressure relief protection
- Remote shutdown
- HAZOP reviewed
- NFPA compliance
- Trained operators with Safety Council certification
- Safety training for your engineers, operators and supervisors

tell me more
www.airproducts.com/apex

For more information

To learn more about how APEX Hydrogen Services can help you maintain production, make your margins, and meet your contractual supply agreements, call 800-APEXGAS or visit us on the Web at www.airproducts.com/apex.

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