

HYDROPRIME®. Modular hydrogen generators using steam-methane reforming.



Maximum dimensions of 46 ft. (14 m) x 9.8 ft. (3 m) and 13.3 ft (4 m) ensure easy transportation and minimize site impact.

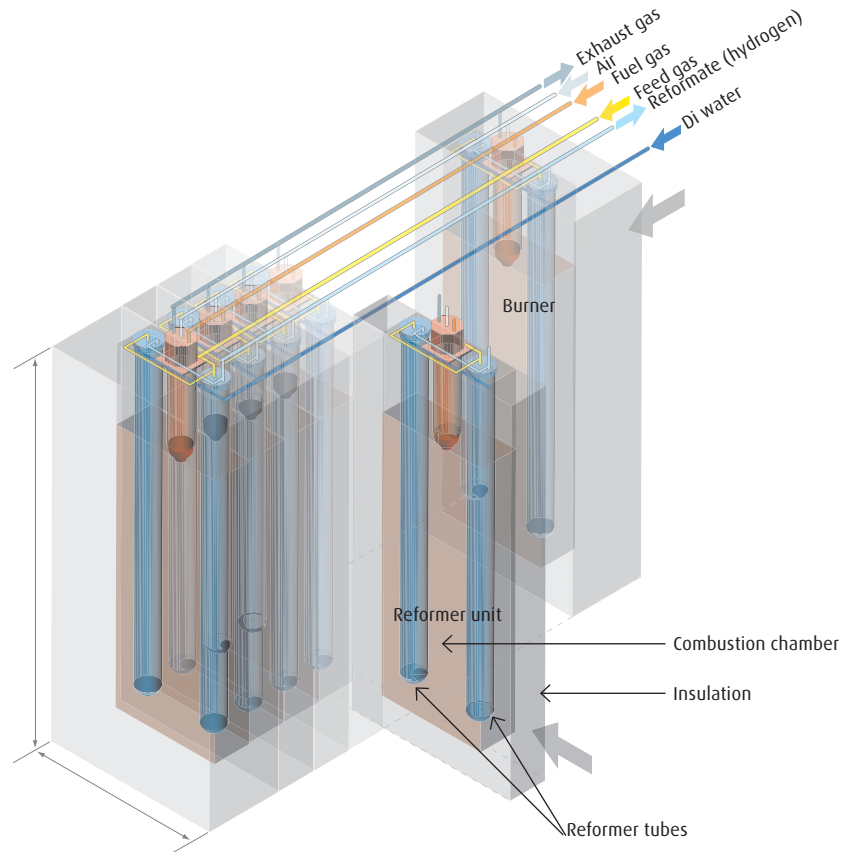
Hydro-Chem, a division of Linde Engineering, has developed a new line of innovative hydrogen generators based on proven steam methane reforming technology. These on-site units provide a compact, efficient, and flexible alternative to other hydrogen supply schemes.

Advantages

HYDROPRIME® plants offer many advantages over traditional supply modes such as electrolytic plants, conventional steam methane plants and truck-delivered bulk hydrogen.

- Hydrogen capacities from 0.3 – 0.9 MM SCFD (330 – 1,000 Nm³/h)
 - Ultra-high purity (99.999+%)
 - Hydrogen product at 200 psig (13.8 barg) - reduced compression cost
- High thermal efficiency and low utility consumption for low operating cost
- High reliability and availability provides greater supply security with backup bulk systems
- Superior environmental and improved safety performance
 - Reduced truck deliveries
 - Low emissions
- Fully automatic with fail-safe controls, allowing unattended operation
 - Remote start-up, operation, and monitoring
 - Automatic load-following controls to reduce production, resulting in lower natural gas and power consumption during periods of reduced demand
- Modular, open skid design
 - Provides easy site installation
 - Suitable for outdoor installation
 - Improved safety
 - Easy accessibility for maintenance
- Quick delivery

The Innovative Reforming Process



In comparison to competing technologies, this unique and proprietary reformer design provides highly dynamic, efficient and low-emission operation requiring minimal control and supervision.

Applications HYDROPRIME® offers a flexible supply solution to an extensive range of industries, including:

- Glass
- Chemicals
- Foods
- Metals
- Electronics
- Photovoltaics
- LEDs
- Energy
- Fuel cells

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