

Ztek Corporation was founded in 1983 with the mission to develop and commercialize the world's cleanest, most efficient fossil fuel energy conversion devices. Ztek's principal activities include the development and production of high performance steam reformers (HPSR) for hydrogen generation applications.

The HPSR is a turnkey system incorporating integrated sub-modules including desulfurization, water purification, low NOx burner (for start-up only), steam generator, catalyst assembly, water-gas shift reactor, and pressure swing absorption unit. The output of Ztek's HPSR system has been verified to provide at least 99.99% pure hydrogen suitable for most fuel cell automobile applications.

The company currently maintains a portfolio of over 200 domestic and worldwide patents and continuing sponsorships by Tennessee Valley Authority, EPRI, and several significant utility entities on its development activities.

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System Output

600 standard cubic feet per hour (scfh) of 99.99% pure hydrogen

Feedstocks

Natural gas, propane, landfill gas, ethanol, methanol, gasoline, diesel or other hydrocarbon fuels

Features

- High Efficiency
- Internal Thermal Integration (ITI)
- Multi-Fuel Capability
- Low Emission
- Low Maintenance
- Small Footprint
- Remote Operability
- Built-In MMI Display
- Safety Interlocks

System Description

4,000lb (Skid Mount)
6'W x 6'L x 6'H

Subassembly Includes:

- Natural Gas Compressor
- Sulfur Removal System
- Water Purification System
- Integrated PLC Controls
- Reformers
- Shift Reactors
- Condenser
- Pressure Swing Adsorption

Utility Requirements

Natural Gas	200 scfh
Water	6 gph
Electricity	10 kW
Drainage	4 gph capacity
Telephone	Remote monitoring

Availability

The system shown above can be configured as an HPSR, SOFC or a combination of both.