

450 Nm³/hr HYDROGEN PLANT

Capacity: 450 Nm³/hr

Year built: 1999, never used

Feedstock: Natural gas

Type: Skid mounted, easy to move

Product Specifications:

- Hydrogen > 99.99%
- Nitrogen < 100 ppm
- Oxygen < 2 ppm.
- Carbon monoxide < 10 ppm
- Carbon dioxide < 3 ppm
- Total hydrocarbon < 10 ppm

Major Equipment:

- Process skid
- Control room
- H₂ compressor
- PSA
- Reformer
- Receiver
- Cooler



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BRIEF PROCESS DESCRIPTION

This hydrogen plant utilizes low pressure steam methane reforming to convert natural gas and steam feedstock into high purity hydrogen. Process and utility connection to the plant are designed such that the standard plant can accommodate a wide range of interface conditions. The plant includes the following operations:

- Feed preheating
- Natural gas hydrotreating and desulfurization
- Low pressure steam methane reforming
- Heat recovery
- Water gas shift reaction
- Syngas cooling
- PSA purification
- Closed loop glycol cooling
- Closed loop temperature shift cooling

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