

Hydrogen Plant - 2,266 Nm³/Hr (80,000 SCFH)

Capacity: 80,000 SCFH

Process Information: The Hydrogen generation plant is designed to produce high Purity hydrogen from natural gas by using steam methane reformer.

Brief Plant Description

Used 2,266 Nm³/hr (80,000 SCFH) Hydrogen Plant, designed by Hydro-Chem (a Linde company) to produce 99.99% hydrogen. Built in 2004. The plant was designed for natural gas feedstock containing 97.97% methane, 1.37% Co₂, 2.49% N₂ and 3.53% ethane. H₂ product 99.99% purity at max 100 °F and minimum discharge pressure of 200 psig. Syngas reformer uses nickel catalyst. The plant equipment has been dismantled and is ready for quick shipment.

Major Equipment

- Feed Heater (HX-101)
- Desulfurizer Vessel (V-101)
- Steam/Gas Lateral (SP-779)
- Reformer (R-101)
- Reformer Effluent Steam Generator (WH-104)
- Shift Converter (V-102)
- Shift Effluent Steam Generator (WH-105)
- Process Cooler (HX-104)
- Deaerator Exchanger (HX-103)
- Boiler Feed Water Exchangers (HX-102A & B)
- Deaerator (V-106)
- Steam Drum (V-107)
- Cold Condensate Separator (V-104)
- Flue Gas Steam Superheater (WH-101)
- Flue Gas Steam Generator (WH-102)
- Blowdown Drum (V-108)
- Economizer (WH-103)
- ID Fan (F-101)
- Cold Condensate Drum (V-104)
- Vent Gas Drum (V-105)
- Adsorbers (A-101A Thru A-101D)

For more
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