

Hydrogen Generating Plant - Item 5350



Description: Hydro Chem hydrogen generating plant, pressure swing adsorption type. Capacity is 25,000 SCFH at 200 psig. Reformer designed with 8 tubes (6 installed & 2 available) and a ground mounted waste heat boiler. There are 4 psa columns. The waste heat boiler provides approximately 1 ton/hr of steam export at 230 psig. The high pressure gas compressor is a 60HP Gardner Denver. Plant is still installed. No control but does include instruments, valves, pipes.

Plant idled in 2015.



FOUR PSA ADSORBER COLUMNS SHOWN ON THE RIGHT



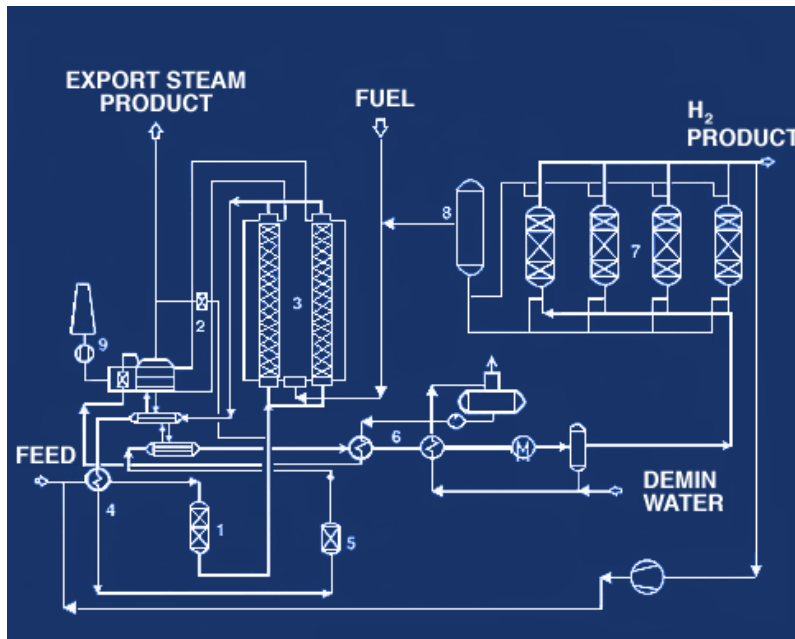
The plant was built in 1977 and has been well maintained throughout its life. The overall condition of the plant is considered very good. The plant has now been shut down properly and is a working plant.

General Specs:

Rate:	25,000 SCFH at 200 psig OR 708 NM ³ /HR
Purity:	99.99%
Feed+Fuel Gas	1.74 MMBTU/HR
Elec Req'd	32KW
Steam Req'd	2100 LBS/HR
Water Req'd:	425 GPM
Plot area:	46 x 66 feet



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Representative schematic of HydroChem High Steam Gas Plant

This data below is for a 40,000 scfh plant – Our 30,000 scfh plant is similar

Technical Data:

Feed and fuel consumption	Natural gas	LPG	Naphtha
MM Btu/h (LHV)	18.09	18.29	18.65
GJ/h (LHV)	19.09	19.30	19.67
Product hydrogen			
Flow rate: Nm ³ /h	1000	1000	1000
MMSCFD	0.896	0.896	0.896
Pressure: barg	14	14	14
psig	203	203	203
Purity vol. % H ₂	99.9	99.9	99.9
Utilities			
20 barg steam export mt/h	1.8	1.7	1.7
290 psig steam export t/h	2.0	1.9	1.9
Cooling water:			
m ³ /h (Dt=10°C)	12	16	19
gpm (Dt=18°F)	53	70	84
Electrical energy kW	32	36	34
Demion water, mt/h	2.4	2.4	2.5
Demion water, t/h	2.6	2.6	2.8
Dimensions			
Plot area, m x m	14x20	14x20	14x20
ft. x ft.	46x66	46x66	46x66

Terms: All equipment is sold As Is Where Is, Subject to prior sale and availability. All quotes are in US Dollars unless specifically noted otherwise. Quotes valid for 2 weeks unless noted otherwise. Description of the equipment - especially those relating to capacity, size, or condition - are stated as clearly as possible for information to the buyer or observer. The descriptions and representations cannot be taken as accurate. The buyer has the sole responsibility to determine size, capacity, capability, suitability, condition, or any other attribute pertaining to the piece of equipment represented or purchased. The assets are sold "As Is", "Where Is" and "with all faults" and except as explicitly stated in the Contract for Purchase. All warranties, including, without limitation, the warranties of merchantability, quality, and fitness for a particular purpose are hereby expressly excluded. Seller makes no representations or warranties as to design, condition, capacity, performance, or any other aspect of the asset.