

SMR Psa Hydrogen Plant Process High Purity 99.99%

Our Product Introduction

Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: ISO9001, CE, BV, SGS, TUV, ASME, GOST,NB,NR ETC
- Model Number: OSH
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 30-45 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



Product Specification

- Purity: 99.9-99.999%
- Flow: 100-10000Nm3/hr
- Pressure: 10-12 Bar
- Structure: Vertical
- Control Type: PLC Control
- Operation Mode: Fully Automatic
- Power Consumption: 0.5-1 KW
- Cooling Type: Air
- Raw Material Of Hydrogen: >60%
- Ex-proof: IP Customized
- Sieves: UOP
- Material: Mild Steel /stainless Steel
- Highlight: psa hydrogen plant, smr psa hydrogen, hydrogen psa process

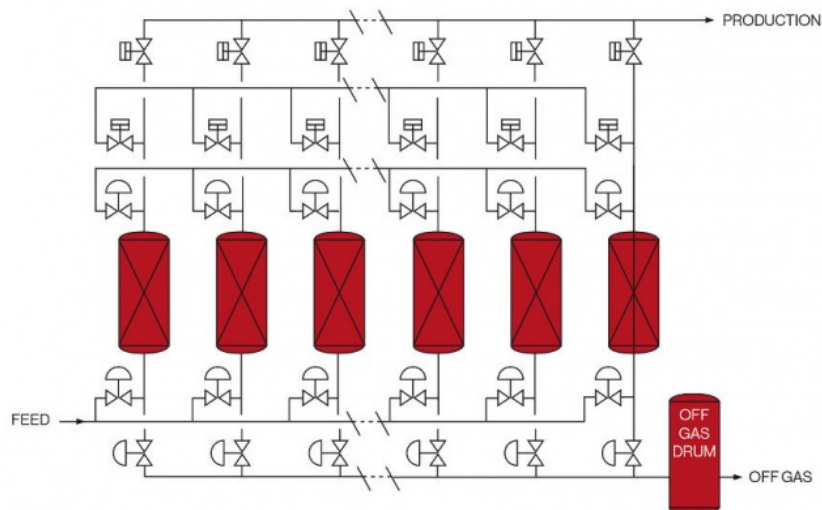
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Product Description

OSH high purity 99.99% PSA hydrogen generator with ASME/ISO/SGS/CE certificates

Pressure Swing Adsorption (PSA) is used to recover and purify hydrogen from a variety of hydrogen-rich streams. The technology relies on differences in the adsorption properties of gases to separate them under pressure, and is an effective way of producing very pure hydrogen.

Automated processes



The feed gas for PSA can be raw hydrogen from a wide variety of sources, including steam methane reforming, partial oxidation, cryogenic purification, methanol plant purge gases, ethylene offgas, styrene offgas, gasification and ammonia plants. During the PSA process, the hydrogen is recovered and purified at a pressure close to the feed pressure, while adsorbed impurities are removed by lowering the pressure. The PSA tail-gas, which contains the impurities, can then be sent back to the fuel system even without a tail-gas compressor. The entire process is automatic.

Sumairui Gas uses the most advanced adsorbents on the market with patented cycles that are optimized for recovery and productivity rates.

The units are made for outdoor and unmanned operation, and are designed to be both compact and fully skid-mounted.

Advantages

Produces hydrogen of up to 99.9999% purity

On-stream factor is typically more than 99.9%

Operates with a wide variety of feed gases

Features patented cycles and advanced adsorbents

Designed for unmanned, outdoor use

Units are compact and skid-mounted

Key figures

Capacity: 5 000 to 200 000 normal cubic meters per hour (Nm³/h)

H₂ recovery rate: 60 to 90%

Turndown: as low as 25%



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