

Hydrogen Purification Skid - 99.9999% Ultra High Purity H2 System with 50-500 Nm3/h Capacity and Catalytic Deoxygenation

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE, ISO 9001
- Model Number: HPU-500H
- Minimum Order Quantity: 1 Set
- Price: USD 30000-150000 / Set
- Packaging Details: Export wooden case with waterproof lining and foam protection
- Delivery Time: 75 working days
- Payment Terms: T/T,L/C
- Supply Ability: 8 Sets per Month



Product Specification

- H2 Purity: 99.9999%
- Working Pressure: 0.5-1.0 MPa
- Power Supply: 380V/50Hz
- H2 Capacity: 50-500 Nm3/h
- Residual O2: < 1 Ppm
- Pressure Dew Point: -70 Deg C
- Highlight: **Ultra High Purity H2 Purification, Gas Hydrogen Purification Skid, Deoxygenation Hydrogen Gas System**

for more products please visit us on nitrogengeneratorsystem.com

Product Description

Gas Hydrogen Purification Skid - 99.9999% Ultra High Purity H2 System

This gas hydrogen purification skid produces ultra high purity hydrogen at 99.9999% through a complete purification train of deoxygenation, adsorption drying and precision filtration. Ideal for electronics, semiconductor, metallurgy and laboratory applications requiring contaminant-free hydrogen gas.

Working Principle

Raw hydrogen gas enters a catalytic deoxygenation reactor where residual oxygen combines with hydrogen to form water. The gas then passes through twin-tower adsorption dryers for deep dew point removal, followed by high-efficiency dust filters, delivering 99.9999% purity hydrogen with oxygen content below 1 ppm.

Key Features

- **Ultra high purity output:** 99.9999% H2 with O2 content below 1 ppm
- **Complete purification train:** deoxygenation, drying and filtration integrated in one skid
- **Continuous operation:** automatic twin tower regeneration without shutdown
- **PLC + HMI control:** online purity analyzer with alarm interlock
- **Compact skid design:** small footprint, quick installation and easy maintenance

Technical Specifications

H2 Capacity	50-500 Nm3/h
H2 Purity	99.9999%
Residual O2	< 1 ppm
Pressure Dew Point	-70 deg C
Working Pressure	0.5-1.0 MPa
Purification Method	Catalytic deoxygenation + twin tower adsorption
Control System	PLC + HMI with online purity analyzer
Power Supply	380V/50Hz or customized

Applications

Electronics and semiconductor manufacturing, metallurgical annealing, glass bulb production, laboratory gas supply and fuel cell testing. Customized capacity and purity available. Contact us for a free technical proposal.



Suzhou Gaopu Ultra pure gas technology Co.,Ltd



+8613912609547



luyycn@163.com



nitrogengeneratorsystem.com

No.161 Zhongfeng Street, Suzhou New District, Suzhou, P.R.China