

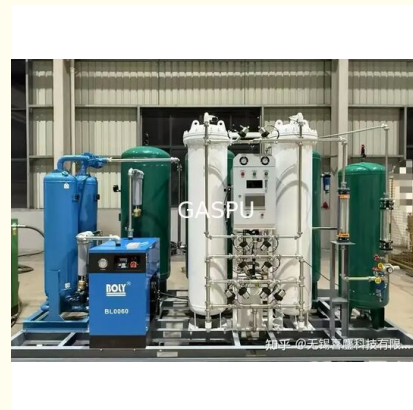
## Nitrogen Purification Skid with 99.999% Purity and 100-500 Nm<sup>3</sup>/h Capacity Using Catalytic Deoxygenation

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE, ISO 9001
- Model Number: NPU-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

- Power Supply: 380V/50Hz
- N<sub>2</sub> Purity: 99.999%
- Purification Method: Catalytic Deoxygenation + Twin Tower Adsorption
- Working Pressure: 0.6-1.0 MPa
- N<sub>2</sub> Capacity: 100-500 Nm<sup>3</sup>/h
- Residual O<sub>2</sub>: < 3 Ppm
- Highlight: **Ultra High Purity N<sub>2</sub> Purification, 99.999% Nitrogen Purification Skid, Deoxygenation Nitrogen Purification System**

## Product Description

### Nitrogen Purification Skid 99.999% Ultra High Purity N2 System 100-500Nm3/h Deoxygenation

#### Nitrogen Purification Skid - 99.999% Ultra High Purity N2 System

This nitrogen purification skid delivers ultra high purity nitrogen at 99.999% with a fully integrated deoxygenation, drying and filtration train. Designed for electronics, semiconductor, lithium battery and pharmaceutical industries requiring contaminant-free nitrogen.

#### Working Principle

Feed nitrogen from a PSA or membrane generator first passes through a catalytic deoxygenation reactor where residual oxygen reacts with hydrogen to form water. The gas stream then enters twin adsorption dryers for deep dew point removal and final precision filtration, achieving 99.999% purity with less than 3 ppm residual oxygen.

#### Key Features

**Ultra high purity output:** 99.999% N2 with O2 content below 3 ppm

**Integrated purification train:** deoxygenation, drying and filtration in one skid

**Automatic regeneration:** twin tower design ensures continuous 24/7 operation

**PLC + touch screen control:** online purity analyzer with alarm interlock

**Compact skid layout:** minimal footprint, easy installation and maintenance

#### Technical Specifications

|                     |                                                 |
|---------------------|-------------------------------------------------|
| N2 Capacity         | 100-500 Nm3/h                                   |
| N2 Purity           | 99.999%                                         |
| Residual O2         | < 3 ppm                                         |
| Pressure Dew Point  | -60 deg C                                       |
| Working Pressure    | 0.6-1.0 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, lithium battery production, pharmaceutical packaging, heat treatment furnaces and laboratory gas supply.

*Customized capacity and purity available. Contact us for a free technical proposal.*



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