

300 Nm³/h 99.999% Purity PSA Nitrogen Generator with PLC Control for Industrial Applications

Our Product Introduction

Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: GASPU
- Certification: ISO 9001:2015, CE
- Model Number: PN-300H
- Minimum Order Quantity: 1 Set
- Price: USD 200,000 - 360,000 / Set
- Packaging Details: Export-grade wooden case with skid base, waterproof wrapping, container loading
- Delivery Time: 75-110 working days
- Payment Terms: T/T, L/C
- Supply Ability: 4 Sets per Month



Product Specification

- Nitrogen Purity: 99.999%
- Power Supply: 380V / 3 Phase / 50Hz
- Outlet Pressure: 0.7 MPa
- Dew Point: -60 C
- Nitrogen Flow Rate: 300 Nm³/h
- Control System: PLC + Touch Screen HMI + Remote Monitoring
- Highlight: **High Purity Nitrogen Gas Generator, 99.999% Ultra Pure N₂ Plant, 300Nm³/h On-Site Nitrogen Gas**

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Product Description

High Purity Nitrogen Gas Generator 300Nm³/h 99.999% Ultra Pure PSA N2 Plant PN-300H

High Purity Nitrogen Gas Generator 300Nm³/h (PN-300H)

The **PN-300H High Purity Nitrogen Gas Generator** is a mid-scale PSA nitrogen gas plant producing **300 Nm³/h** of ultra pure nitrogen at **99.999% purity**. Designed for continuous industrial duty, it combines dual adsorption towers, precision purity control and a buffer system to supply stable high purity nitrogen gas for demanding production lines.

Key Features

Stable 99.999% Purity: Dual-tower PSA cycle with automatic purity control maintains consistent high purity nitrogen gas output.

Continuous Industrial Duty: Heavy-duty valves and sieve filling engineered for 24/7 production operation.

Energy Efficient: Optimized cycle timing reduces specific air consumption and power cost per Nm³ of nitrogen gas.

Remote Monitoring: PLC control with HMI and remote data interface supports centralized plant supervision.

Fast Commissioning: Factory pre-tested skid with pre-piped connections, ready for on-site startup within days.

Technical Parameters

Nitrogen Flow Rate	300 Nm ³ /h
Nitrogen Purity	99.999%
Outlet Pressure	0.7 MPa
Dew Point	-60 °C
Technology	Pressure Swing Adsorption (PSA)
Control System	PLC + Touch Screen HMI + Remote Monitoring
Power Supply	380V / 3 Phase / 50Hz
Skid Type	Standard Skid Mounted
Application	Electronics, Pharmaceutical, Metal Processing

Applications

Suitable for electronics manufacturing, pharmaceutical production, metal heat treatment, chemical industry and other processes requiring large volumes of high purity nitrogen gas on site.

FAQ

Q1: Can the nitrogen gas purity be adjusted for different processes?

Yes, the PN-300H purity can be configured from 99.9% to 99.999% to match your process requirement, with the control system set at the factory.

Q2: What air quality is required for the high purity nitrogen gas generator?

The system requires clean, dry compressed air (ISO 8573-1 class 1.4.1 recommended). An integrated air treatment package can be supplied as an option.

Q3: How long does installation take?

The unit is delivered as a pre-assembled, factory-tested skid. On-site installation and commissioning typically takes 5-7 days with our engineer support.



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