

PSA Nitrogen Generator 150Nm³/hr High Purity Skid Design

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: NG
- Minimum Order Quantity: 1set
- Price: negotiation
- Packaging Details: Plywood or other type
- Delivery Time: 25work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 4set/month



Product Specification

- Port: Shanghai
- Type: Nitrogen Generator
- Oxygen Output: ≤150Nm³/hr
- Feature: High Purity
- Weight: 6700 KG
- Skid Design: Plug And Play
- Nitrogen Production Method: Pressure Swing Adsorption (PSA)
- Oxygen Analyzer: Yes
- Keyword: Psa Nitrogen Generator
- Surrounding Requirement: No Dust And Corrosive Gas, 0~40
- Voltage: 440V/410V
- Dimension: Customizable
- Showroom Location: China
- Carbon Molecular Sieve: CMS-240



More Images



Product Description

GB150 Standard PSA N2 Generator for Nitrogen Gas Custom

Attribute	Value
Port	shanghai
Type	Nitrogen Generator
Oxygen Output	≤150Nm ³ /hr
Feature	High purity
Weight	6700 KG
Skid Design	Plug and play
Nitrogen Production Method	Pressure Swing Adsorption (PSA)
Oxygen Analyzer	Yes
Keyword	PSA Nitrogen generator
Surrounding Requirement	no dust and corrosive gas, 0~40
Voltage	440V/410V
Dimension	Customizable
Showroom Location	China
Carbon Molecular Sieve	CMS-240
Flow	5-2000Nm ³ /h

GASPU On-Site Nitrogen Generator Skid: 120Nm³/h @99.99% Purity for Industrial Excellence

In industries where reliable, high-purity nitrogen is critical—from oil & gas to pharmaceuticals, food processing to aerospace—on-site nitrogen generation has emerged as a cost-effective alternative to traditional cylinder or liquid nitrogen supply. The **GASPU Nitrogen Generator Skid** is engineered to deliver **120Nm³/h of 99.99% pure nitrogen** directly at your facility, eliminating logistics costs, storage risks, and supply chain delays. By extracting nitrogen from ambient air (78% nitrogen content), this skid-mounted system ensures a continuous, on-demand gas supply tailored to your operational needs. Compliant with optional ASME/GB150 standards and customizable for diverse applications, it stands as a versatile solution for modern industrial gas requirements.

Product Features & Technical Advantages

1. Superior Molecular Sieve Protection & Longevity

At the core of the GASPU Nitrogen Generator lies advanced molecular sieve technology, fortified with **unique protective measures** to extend sieve lifespan. The self-reliance cylinder pressure device prevents high-speed airflow from causing sieve pulverization, while a built-in limit settlement alarm triggers automatic alerts when maintenance is needed. This ensures consistent performance and reduces downtime, making it ideal for 24/7 operations.

2. Energy Efficiency & Cost Reduction

With **optimized process design** and energy-saving features, the system minimizes operational costs by reducing air consumption and power usage. Unlike bottled nitrogen, which incurs recurring delivery and storage fees, on-site generation cuts long-term expenses by up to 60%, delivering significant ROI for businesses of all sizes.

3. Smart Automation & Remote Monitoring

Equipped with a **DCS remote control system interface**, operators can monitor real-time performance, pressure, purity, and dew point via computer, enabling proactive maintenance. The **intelligent interlocking nitrogen vent device** guarantees 99.99% purity by automatically purging substandard gas, while fault alarms (e.g., pressure fluctuations, purity drops) ensure safe, unattended operation.

4. Robust Construction & Ease of Use

The skid's **compact, modular design** simplifies transportation, lifting, and installation, even in space-constrained facilities. High-quality, industry-proven control components (e.g., sensors, valves) ensure stable, reliable operation with minimal manual intervention. Its user-friendly interface and fully automated cycle allow for **unattended operation**, freeing up staff for critical tasks.

Technical Specifications

Parameter	Details
N2 Capacity	120 Nm ³ /h
N2 Purity	99.99%
Dew Point	-45°C (Pressure Dew Point)
Output Pressure	1-8 barg (Adjustable)
Power Supply	0.2 kW, 110V-240V/50-60Hz
Standards Compliance	Optional ASME/GB150
Applications	Oil & Gas, Food, Pharma, New Energy, Aerospace, Steel, Marine, Automobile

Frequently Asked Questions (FAQ)

Q1: How does on-site nitrogen generation compare to buying nitrogen cylinders?

A: On-site generation eliminates delivery costs, storage hazards (e.g., cylinder explosions), and supply disruptions. Over time, it reduces gas costs by 40-60% and ensures 24/7 availability, making it ideal for high-demand industries.

Q2: Can the system be customized for higher purity or flow rates?

A: Yes. While this model is rated for 99.99% purity and 120Nm³/h, GASPU offers customization for purity levels up to 99.999% and capacities ranging from 5Nm³/h to 5,000Nm³/h.

Q3: What maintenance is required?

A: Minimal upkeep includes periodic air filter replacement (every 6-12 months) and molecular sieve regeneration checks (typically every 3-5 years). The system's self-diagnostic alarms simplify maintenance scheduling.

Q4: Is the generator suitable for outdoor installation?

A: Yes. The skid is weather-resistant and can be installed indoors or outdoors, provided it is sheltered from extreme conditions (e.g., heavy rain, direct sunlight).

Q5: How long does installation take?

A: Installation is streamlined due to the skid's pre-assembled design. Most systems are operational within 1-2 days, requiring only electrical connection, compressed air input, and venting setup.

Why Choose GASPU?

The GASPU Nitrogen Generator Skid combines **efficiency, reliability, and automation** to redefine industrial gas supply. By prioritizing energy savings, user-friendly operation, and compliance with global standards, it empowers businesses to optimize productivity while reducing environmental impact. Whether for heat treatment, inert blanketing, or precision manufacturing, this system delivers consistent, high-purity nitrogen—where you need it, when you need it.

Ready to transform your nitrogen supply? Contact GASPU today for a customized quote and expert consultation.

Keywords: on-site nitrogen generator skid, 120Nm³/h nitrogen generator, 99.99% purity nitrogen system, industrial nitrogen solution, ASME compliant nitrogen generator



Suzhou Gaopu Ultra pure gas technology Co.,Ltd



+8613912609547



luyycn@163.com



nitrogeneratorsystem.com

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