

PSA Nitrogen Generator with 99.5% Purity and 100 Nm³/h Flow Rate Featuring PLC Control for On-Site Nitrogen Generation

Our Product Introduction

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Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: GASPU
- Certification: ISO 9001:2015, CE
- Model Number: PN-100
- Minimum Order Quantity: 1 Set
- Price: USD 90,000 - 150,000 / Set
- Packaging Details: Export-grade wooden case with shock-proof packing, sea-worthy for container shipment
- Delivery Time: 60-90 working days
- Payment Terms: T/T, L/C
- Supply Ability: 10 Sets per Month



Product Specification

- Nitrogen Purity: 95% - 99.999%
- Power Supply: 380V / 3 Phase / 50Hz
- Outlet Pressure: 0.7 MPa
- Dew Point: -40 C
- Nitrogen Flow Rate: 100 Nm³/h
- Control System: PLC + Touch Screen HMI
- Highlight: **On-Site Nitrogen Gas Generation Plant, Skid-Mounted PSA Nitrogen Generator, 99.5% Purity Continuous N₂ Supply**

Product Description

On-Site Nitrogen Gas Generation Plant - PN-100 PSA Nitrogen Generator

The **PN-100 PSA Nitrogen Generator** is a complete skid-mounted, on-site nitrogen gas generation plant that produces high-purity nitrogen directly at your facility. Using Pressure Swing Adsorption (PSA) technology with imported carbon molecular sieve (CMS), it delivers a continuous, reliable N₂ supply of **100 Nm³/h** at **99.5% purity**, eliminating the cost and logistics of bottled or liquid nitrogen.

Key Advantages

- **On-Site Generation:** Produce nitrogen exactly where you need it, with no delivery delays or cylinder handling.
- **99.5% Purity:** Consistent output purity from 95% up to 99.999% to match your process requirement.
- **Skid-Mounted Design:** Compact, pre-assembled skid for fast installation and minimal footprint.
- **Full Automation:** PLC control with touch-screen HMI enables unattended 24/7 operation.
- **Low Running Cost:** Only consumes compressed air and electricity, reducing nitrogen cost by up to 50%.

Technical Parameters

Nitrogen Flow Rate	100 Nm ³ /h
Nitrogen Purity	95% - 99.999%
Outlet Pressure	0.7 MPa
Dew Point	-40 C
Technology	Pressure Swing Adsorption (PSA)
Control System	PLC + Touch Screen HMI
Power Supply	380V / 3 Phase / 50Hz

Applications

Widely used in food packaging, electronics manufacturing, chemical blanketing, laser cutting, metal heat treatment and pharmaceutical processing.



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