

## Small Footprint Fully Automatic PSA Nitrogen Generator 3Nm3/H for Mini Industrial Use

Our Product Introduction

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### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: GASPU
- Certification: CE, ISO 9001:2015
- Model Number: N2-MINI-3
- Minimum Order Quantity: 1 Set
- Price: USD 8,000-12,000 / Set
- Packaging Details: Export-grade plywood case with foam padding
- Delivery Time: 30 working days
- Payment Terms: T/T,L/C,Western Union
- Supply Ability: 10 Sets per Month



### Product Specification

- Model: N2-MINI-3
- Nitrogen Flow Rate: 3 Nm3/H
- Nitrogen Purity: 99.9%
- Output Pressure: 0.5-0.8 MPa
- Control System: PLC + Touch Screen HMI
- Operation Mode: Fully Automatic
- Power Consumption: 1.5 KW
- Footprint (LxWxH): 1200 X 800 X 1500 Mm
- Air Source: Integrated Silent Oil-free Compressor
- Noise Level: <= 60 DB(A)
- Highlight: **Small Footprint Nitrogen Generator,  
Fully Automatic PSA N2 System,  
Low Investment Mini Industrial**

## Product Description

### Small Footprint Fully Automatic PSA Nitrogen Generator 3Nm<sup>3</sup>/H

The GASPU N2-MINI-3 is a mini industrial PSA nitrogen generator engineered for operators who need reliable on-site nitrogen with a small footprint and low initial investment. This fully automatic skid-mounted unit delivers 3Nm<sup>3</sup>/H of nitrogen at 99.9% purity while occupying minimal floor space.

#### Key Features & Competitive Advantages

- **Small Footprint Design:** Integrated oil-free compressor, air dryer and PSA tower in one compact skid, saving up to 60% floor space compared with traditional split systems.
- **Low Initial Investment:** Cost-effective entry-level configuration for SMEs and laboratories, eliminating cylinder rental, transportation and repeated refill costs.
- **Fully Automatic Operation:** PLC controller with 7-inch touch screen HMI, one-button start, unattended 24/7 continuous running with alarm notification.
- **Mini Industrial Build:** Heavy-duty carbon steel frame with seamless steel pipelines, CE and ISO 9001:2015 certified for long service life.
- **Energy Saving:** Intelligent adsorption cycle control reduces compressed air consumption by up to 25%.

#### Technical Specifications

|                    |                        |
|--------------------|------------------------|
| Model Number       | N2-MINI-3              |
| Nitrogen Flow Rate | 3 Nm <sup>3</sup> /H   |
| Nitrogen Purity    | 99.9%                  |
| Output Pressure    | 0.5-0.8 MPa            |
| Control System     | PLC + Touch Screen HMI |
| Operation Mode     | Fully Automatic        |
| Power Consumption  | 1.5 kW                 |
| Footprint (LxWxH)  | 1200 x 800 x 1500 mm   |
| Noise Level        | ≤ 60 dB(A)             |

#### Common Applications

Food packaging inerting, electronics manufacturing purging, laser cutting assist gas, chemical reactor blanketing, laboratory nitrogen supply.

#### Frequently Asked Questions

**Q: What is the minimum order quantity?**

A: 1 set. Each unit is fully tested before shipment.

**Q: How much floor space is required?**

A: Only 1200 x 800 mm, suitable for small workshops and laboratories.

**Q: What maintenance is required?**

A: Filter replacement every 6-12 months; molecular sieve inspection every 3-5 years.



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