

Modern Technology PSA Nitrogen 99.999% Pure Nitrogen Generator 50 Nm³/H On-Site N₂ Plant

Our Product Introduction

for more products please visit us on nitrogengeneratorsystem.com

Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: FLY SPEED
- Certification: CE, ISO 9001:2015
- Model Number: FS-N2-50U
- Minimum Order Quantity: 1 Set
- Price: USD 12,000-38,000 / Set
- Packaging Details: Export wooden case with PE film protection, sea-worthy packing
- Delivery Time: 35-45 working days
- Payment Terms: T/T, L/C
- Supply Ability: 10 Sets per Month



Product Specification

- Nitrogen Purity: 95% - 99.999% (O₂ ≤ 5 Ppm)
- Capacity: 50 Nm³/H
- Pressure Dew Point: ≤ -60 Deg C
- Air Source Pressure: 0.75 - 1.0 MPa
- Nitrogen Outlet Pressure: 0.1 - 0.6 MPa
- Voltage: 220V/380V/440V 50/60Hz
- Adsorbent: Carbon Molecular Sieve (CMS)
- Control System: PLC + Touch Screen HMI
- Noise Level: ≤ 75 DB(A)
- Warranty: 1 Year
- HS CODE: 8419609090
- Highlight: **99.999% Pure Nitrogen Output, Modern PSA Adsorption Technology, 50 Nm³/H On-Site N₂ Plant**

Product Description

Modern Technology PSA Nitrogen 99.999% Pure Nitrogen Generator

Introducing the **Modern Technology PSA Nitrogen 99.999% Pure Nitrogen Generator**, an advanced on-site nitrogen solution built with the latest Pressure Swing Adsorption (PSA) engineering. Using high-performance Carbon Molecular Sieve (CMS) and intelligent PLC control, this generator produces ultra-pure nitrogen up to **99.999%** continuously and cost-effectively.

Product Attributes

Attribute	Value
Brand Name	Fly Speed
Model Number	FS-N2-50U
Capacity	50 Nm ³ /H
Nitrogen Purity	95% - 99.999% (Adjustable)
Condition	New
HS CODE	8419609090

Core Features & Advantages

Ultra-High Purity 99.999%: Advanced CMS filling and optimized purge cycles achieve oxygen content ≤ 5 ppm for demanding processes.

Modern PSA Technology: Twin-tower adsorption with pressure equalization delivers stable, uninterrupted pure nitrogen flow.

Intelligent PLC Control: Touch-screen HMI with real-time purity monitoring, one-touch start and remote alarm functions.

Energy-Efficient Design: Low specific energy consumption reduces operating costs by up to 30% vs. conventional units.

Compact Modular Skid: Pre-piped, pre-wired skid cuts installation time and saves valuable plant floor space.

Low Maintenance: Minimal moving parts, only periodic CMS inspection and filter replacement required.

Technical Specifications

Parameter	Value
Nitrogen Capacity	50 Nm ³ /H
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Air Source Pressure	0.75 - 1.0 MPa
Nitrogen Outlet Pressure	0.1 - 0.6 MPa (adjustable)
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Adsorbent	Carbon Molecular Sieve (CMS)
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Noise Level	≤ 75 dB(A)

Applications

Ideal for electronics and PCB soldering, semiconductor handling, laboratories, pharmaceutical packaging, metal heat treatment and laser cutting requiring ultra-pure nitrogen.

FAQ

Q: Can this generator really reach 99.999% purity?

A: Yes. With optimized CMS charge and PLC-tuned purge timing, oxygen content drops to ≤ 5 ppm, achieving 99.999% purity at rated flow.

Q: Is installation complicated?

A: No. The modular skid arrives pre-assembled; connect air supply and power, and the system starts producing nitrogen

automatically.

Contact us today! Fly Speed offers tailored 99.999% pure nitrogen generator solutions with fast delivery and full after-sales support.



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