

Fly Speed N2 PSA Pure Nitrogen Generating Air Separation Generator 100 Nm3/H 99.99% Purity

Our Product Introduction

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Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: FLY SPEED
- Certification: CE, ISO 9001:2015
- Model Number: FS-N2-100
- Minimum Order Quantity: 1 Set
- Price: USD 15,000-45,000 / 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% - 99.99%
- Capacity: 100 Nm3/H
- Pressure Dew Point: ≤ -45 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
- Warranty: 1 Year
- HS CODE: 8419609090
- Highlight: **PSA Pure Nitrogen Generator, Air Separation N2 System, 99.99% On-Site Nitrogen Production**

Product Description

Fly Speed N2 PSA Pure Nitrogen Generating Air Separation Generator

Experience reliable, on-site nitrogen production with the **Fly Speed N2 PSA Pure Nitrogen Generating Air Separation Generator**. Built on advanced Pressure Swing Adsorption (PSA) technology with premium Carbon Molecular Sieve (CMS), this air separation generator delivers continuous, high-purity nitrogen at a fraction of the cost of delivered gas.

Product Attributes

Attribute	Value
Brand Name	Fly Speed
Model Number	FS-N2-100
Capacity	100 Nm3/H
Nitrogen Purity	95% - 99.99% (Adjustable)
Condition	New
HS CODE	8419609090

Core Features & Advantages

Pure Nitrogen Generation: CMS selectively adsorbs oxygen, moisture and CO₂, producing pure nitrogen gas on-site with purity up to 99.99%.

Air Separation Technology: Twin adsorption towers alternate automatically for uninterrupted N₂ flow around the clock.

Fully Automatic Operation: PLC-controlled pneumatic valves and touch-screen HMI simplify operation and monitoring.

Energy Efficient: Optimized pressure equalization cuts energy consumption by up to 20% versus conventional systems.

Quick Start & Stable Output: Reach target purity within minutes; stable dew point ≤ -45°C protects downstream equipment.

Modular Skid Design: Compact footprint, pre-piped and pre-wired, reducing installation time and cost.

Technical Specifications

Parameter	Value
Nitrogen Capacity	100 Nm3/H
Nitrogen Purity	95% - 99.99% (adjustable via PLC)
Pressure Dew Point	≤ -45°C
Air Source Pressure	0.75 - 1.0 MPa
Nitrogen Outlet Pressure	0.1 - 0.6 MPa (adjustable)
Voltage	220V / 380V / 440V, 50/60Hz
Adsorbent	Carbon Molecular Sieve (CMS)
Control System	PLC + Touch Screen HMI
Construction Material	Carbon Steel / Stainless Steel 304

Applications

Ideal for laser cutting, metal heat treatment, electronics manufacturing, chemical industry, food packaging and pharmaceutical production where pure, dry nitrogen is essential.

FAQ

Q: How does the PSA air separation generator work?

A: Compressed air enters a CMS-filled tower under pressure. The sieve adsorbs oxygen faster than nitrogen, allowing pure N₂ to flow out. The second tower regenerates by depressurizing, ensuring continuous supply.

Q: Can purity be adjusted?

A: Yes. Purity from 95% to 99.99% is set directly on the PLC touch screen, balancing flow rate and purity for your process.

Get your tailored quote today! Contact Fly Speed sales team for detailed pricing and customization options based

on your flow, purity and pressure requirements.



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