

High Purity 99.99% PSA Nitrogen Generator with 300 Nm³/H Capacity and PLC Control System

Our Product Introduction

Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: FLY SPEED
- Certification: CE, ISO 9001:2015
- Model Number: FS-N2-300HP
- Minimum Order Quantity: 1 Set
- Price: USD 38,000-120,000 / Set
- Packaging Details: Export wooden case with PE film protection, sea-worthy packing
- Delivery Time: 45-60 working days
- Payment Terms: T/T,L/C
- Supply Ability: 5 Sets per Month



Product Specification

- Capacity: 300 Nm³/H
- Nitrogen Purity: 99.99% (O₂ ≤ 100 Ppm)
- Pressure Dew Point: ≤ -45 Deg C
- Air Source Pressure: 0.75 - 1.0 MPa
- Nitrogen Outlet Pressure: 0.1 - 0.8 MPa
- Voltage: 220V/380V/440V 50/60Hz
- Highlight: **300 Nm³/H Industry N₂ Plant, Guaranteed 99.99% Purity System, Large Scale PSA Nitrogen Generator**

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Product Description

High Purity 99.99% Industry Nitrogen Plant PSA Nitrogen Generator 300 Nm3/H N2 System

Scale up to reliable high-purity nitrogen with the **High Purity 99.99% Industry Nitrogen Plant PSA Nitrogen Generator**. This **300 Nm3/H** industrial nitrogen plant delivers a guaranteed **99.99%** purity with advanced multi-tower PSA technology, engineered for large-scale manufacturing and processing facilities.

Product Attributes

Attribute	Value
Brand Name	Fly Speed
Model Number	FS-N2-300HP
Capacity	300 Nm3/H
Nitrogen Purity	99.99% (Guaranteed)
Plant Type	Large Industrial Nitrogen Plant
HS CODE	8419609090

Core Features & Advantages

Large-Scale High Purity: Sustains 99.99% purity at 300 Nm3/H for plant-wide nitrogen distribution.

Advanced Multi-Tower PSA: Enhanced tower sequencing maximizes recovery and minimizes energy use.

Complete Plant Integration: Full package with air compressor, dryers, filtration, PSA core and buffer tanks.

Fully Automatic Operation: PLC control with SCADA-ready communication and remote monitoring.

Low Operating Cost: On-site generation saves 30-50% versus purchased liquid or cylinder nitrogen.

Industrial Durability: Carbon steel / SS304 construction with optional explosion-proof design.

Technical Specifications

Parameter	Value
Nitrogen Capacity	300 Nm3/H
Nitrogen Purity	99.99% (O2 ≤ 100 ppm)
Pressure Dew Point	≤ -45°C
Air Source Pressure	0.75 - 1.0 MPa
Nitrogen Outlet Pressure	0.1 - 0.8 MPa (adjustable)
Voltage	220V / 380V / 440V, 50/60Hz
Adsorbent	Carbon Molecular Sieve (CMS)
Control System	PLC + SCADA Ready, Remote Alarm
Optional Booster	Up to 15 MPa

Applications

Designed for large laser cutting facilities, metal heat treatment plants, chemical and petrochemical complexes, electronics campuses, food processing plants and centralized nitrogen supply networks.

Frequently Asked Questions

Q: Can purity be increased above 99.99%?

A: Yes. Optional configurations achieve 99.999% purity with additional CMS optimization and purge control.

Q: What is the typical payback period?

A: For plants consuming over 200 Nm3/H, on-site generation typically pays back within 12-18 months.

Request a quote now! Contact Fly Speed for a high purity 99.99% industrial nitrogen plant tailored to your capacity needs.



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