

Energy Saving VFD Nitrogen Generation Skid with 500Nm³/h Capacity and 99.9% Purity

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE, ISO 9001
- Model Number: NGE-500
- Minimum Order Quantity: 1 Set
- Price: USD 85000-300000 / Set
- Packaging Details: Export wooden case with waterproof lining and foam protection
- Delivery Time: 100 working days
- Payment Terms: T/T,L/C
- Supply Ability: 5 Sets per Month



Product Specification

- Power Supply: 380V/50Hz Or 460V/60Hz
- N₂ Purity: 99.9%
- Capacity Modulation: 40%-100% Automatic
- Noise Level: Below 72 DB(A) At 1m
- Working Pressure: 0.8-1.1 MPa
- N₂ Capacity: 500 Nm³/h
- Highlight: **Energy Saving N₂ Generation Skid,
VFD Nitrogen Skid Package,
Low Power Nitrogen Generation Unit**

Product Description

Nitrogen Generation Skid - Energy Saving VFD Package 500Nm³/h 99.9% Purity

This energy saving nitrogen generation skid integrates variable frequency drive technology with PSA nitrogen generation to deliver 500Nm³/h at 99.9% purity while reducing power consumption by up to 30%. Engineered for continuous industrial nitrogen demand with optimized operating cost.

Energy Saving Design

- **VFD driven air compressor:** variable speed matches nitrogen demand precisely
- **Up to 30% energy saving:** optimized power consumption versus fixed speed systems
- **Demand based control:** automatic capacity modulation from 40% to 100%
- **Heat recovery option:** compressor waste heat reusable for plant heating
- **Remote monitoring:** RS485/Modbus interface for plant energy management

Technical Specifications

N2 Capacity	500 Nm ³ /h
N2 Purity	99.9%
Working Pressure	0.8-1.1 MPa
Energy Saving	Up to 30% vs fixed speed
Capacity Modulation	40%-100% automatic
Control System	PLC + HMI with VFD interface
Noise Level	Below 72 dB(A) at 1m
Power Supply	380V/50Hz or 460V/60Hz

Applications

Chemical plants, food and beverage processing, metal heat treatment, glass manufacturing and other continuous nitrogen consumers seeking lower operating cost.

Ask our engineers for an energy saving nitrogen generation skid sized to your demand profile.



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