

## 500 Nm3/H Containerized PSA Nitrogen Generator for Food Grade N2 Supply with ISO Container Design

Our Product Introduction

### Basic Information

- Place of Origin: Guangdong, China
- Brand Name: ECER
- Certification: ISO 9001:2015, CE
- Model Number: PSA-N2-500F
- Minimum Order Quantity: 1 Set
- Price: USD 85,000-130,000 / Set
- Packaging Details: Standard ISO container delivery, export-grade seaworthy packing
- Delivery Time: 30-45 working days after deposit
- Payment Terms: T/T,L/C,Western Union
- Supply Ability: 10 Sets per Month



### Product Specification

- Control System: PLC Automatic Control
- Adsorbent: Carbon Molecular Sieve
- Nitrogen Purity: 99.9% (Food Grade)
- Working Pressure: 0.6-1.0 MPa
- Power Supply: 380V/50Hz
- Pressure Dew Point: -45°C
- Highlight: **500 Nm3/H Containerized Design, Food Grade Nitrogen Production, Modified Atmosphere Packaging N2**

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## Product Description

### 500 Nm3/H Containerized N2 Production PSA Nitrogen Generator for Food Packaging Preservation

#### Containerized Design | 500 Nm3/H Capacity | Food Grade Nitrogen | Quick Installation

This PSA-N2-500F is a complete **500 Nm3/H containerized PSA nitrogen generator** engineered for food packaging preservation applications. The entire nitrogen production system - air treatment, PSA adsorption towers, control cabinet and piping - is pre-assembled inside a standard ISO container, delivering **food-grade nitrogen (99.9% (Food Grade))** on site with minimal installation work and footprint.

#### Key Selling Points

- **Containerized Design:** Fully integrated in an ISO container, pre-piped and pre-wired, plug-and-play on arrival - no civil works or on-site assembly required.
- **500 Nm3/H High Capacity:** Stable continuous nitrogen output up to 500 Nm3/h for large-scale food packaging lines.
- **Food Packaging Preservation:** Food-grade nitrogen displaces oxygen in packaging to extend shelf life and preserve freshness, color and flavor.
- **Modified Atmosphere Packaging (MAP):** Ideal for snack foods, fresh produce, meat, dairy and baked goods MAP applications.
- **Low Operating Cost:** On-site generation eliminates cylinder and liquid nitrogen logistics, reducing nitrogen cost by up to 70%.
- **PLC Automatic Control:** One-touch start, purity auto-monitoring, alarm and remote monitoring interface.

#### Technical Specifications

| Parameter          | Value                                |
|--------------------|--------------------------------------|
| Model              | PSA-N2-500F                          |
| Nitrogen Purity    | 99.9% (Food Grade)                   |
| Nitrogen Flow Rate | 500 Nm3/h                            |
| Pressure Dew Point | -45°C                                |
| Working Pressure   | 0.6-1.0 MPa                          |
| Unit Type          | Containerized Design (ISO Container) |
| Application        | Food Packaging / MAP Preservation    |

Contact us today for a containerized nitrogen generator solution tailored to your food packaging preservation line.



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