

## A PSA nitrogen generator for one-step production of high-purity nitrogen gas

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: NG
- Minimum Order Quantity: 1set
- Price: Negotiate
- Packaging Details: Plywood or other type
- Delivery Time: 45work days
- Payment Terms: T/T
- Supply Ability: 6set/month



### Product Specification

- Warranty: One Year
- Usage: Nitrogen
- Condition: New
- Voltage: 220v/380v/50-60hz
- Purity: 99.999%-99.9995%
- Product Name: High Quality Design Psa Nitrogen Generator Cheap Price
- Highlight: **psa onsite nitrogen generation, generator onsite nitrogen generation, nitrogen gas psa nitrogen generator**



### More Images



## Product Description

A PSA nitrogen generator for one-step production of high-purity nitrogen gas

### Brief introduction

The core of a one-step nitrogen generator for producing high-purity nitrogen is to directly extract high-purity nitrogen from the air through a series of efficient and compact process steps. The following are the main steps:

Raw material preparation: Firstly, choose high-quality air as the raw material. Due to the fact that air is mainly composed of nitrogen and oxygen, it is an ideal source for producing nitrogen.

Compression: Use an air compressor to compress the air, increase its pressure, and prepare for subsequent purification and separation steps.

Purification: Compressed air will enter the purification system to remove dust, particles, water vapor, and other impurities, ensuring the purity of the gas entering the separation system.

Separation and purification: The purified air enters the separation system, where advanced molecular sieve technology or membrane separation technology is usually used. These technologies can achieve effective separation of nitrogen and oxygen based on their different characteristics at the molecular level. Through this step, high purity nitrogen gas can be obtained.

Product Collection: The high-purity nitrogen separated is further processed, such as drying and filtering, to ensure that it meets specific purity requirements before being collected and stored.

### Attention

It should be noted that the key to obtaining high-purity nitrogen through one-step method lies in selecting efficient and reliable separation techniques, as well as strictly controlling the operating conditions throughout the entire production process to ensure that each step achieves optimal results. In addition, regular equipment maintenance and inspection are also important measures to ensure product quality and production safety.

### Application

The one-step method for producing high-purity nitrogen gas is mainly used in the following situations:

1. The on-site purification equipment is inconvenient to use
2. No hydrogen source available, unable to use hydrogenation purification equipment
3. Without carbon fiber deoxidizer, carbon purification equipment cannot be used
4. The venue is compact and there is no place for nitrogen purification equipment
5. Other special applications



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