



## PSA nitrogen generators for the chemical industry, Efficient, molecular sieve type

Our Product Introduction

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### Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: MD
- Minimum Order Quantity: 1set
- Price: Negotiate
- Packaging Details: Plywood or other type
- Delivery Time: 40work days
- Payment Terms: T/T
- Supply Ability: 8set/month



### Product Specification

- Warranty: 1 Year
- Usage: Production Of Gaseous Nitrogen Gas
- Condition: New
- Voltage: 220V/380V/440V
- Production Rate: 95-99.99%
- HS CODE: 8419609090
- Highlight: **chemical industry psa nitrogen, chemical industry nitrogen psa unit, molecular sieve psa nitrogen**



### More Images



## Product Description

PSA Nitrogen Generator, With Carbon Molecular Sieve Sorbent, Chemical Industrial Application

### PSA Nitrogen Generator Principles:

PSA nitrogen generator uses a carbon molecular sieve as sorbent and produces nitrogen by making use of the PSA principle. Under certain pressure, a carbon molecular sieve has different oxygen/nitrogen adsorption capacity, i.e. much more oxygen adsorption capacity than nitrogen adsorption capacity. PLC controls the pneumatic valve on/off to realize two towers alternate adsorption and desorption as per pressure change, carries out oxygen/nitrogen separation, and produces nitrogen with desired purity.

PSA Nitrogen Generator incorporates one air compressor, refrigerant air dryer and filters, main nitrogen generator, air buffer tank, and nitrogen buffer tank. With higher nitrogen pressure required, one BROTHIE oil-free nitrogen compressor will be equipped after the nitrogen generator to increase the nitrogen pressure to the required pressure.

Compressed air is purified through the air dryer and filters to a certain level for the main generator to work with. Air buffer is incorporated for a smooth supply of compressed air thus reducing the fluctuation of work demand for air compressors. The generator produces nitrogen with PSA (pressure swing adsorption) technology, a time-proven nitrogen generation method. Nitrogen with a desired purity is delivered to a nitrogen buffer tank for a smooth supply of product gas. Nitrogen in the buffer tank is maintained at 6 barg pressure. After an oil-free nitrogen compressor, the pressure will be compressed to the required pressure. It is adjustable for you to adjust the outlet pressure by a pressure regulator valve so that it can be used for your specific use.

### PSA Nitrogen Generator Details

95%-99.99% purity

3-2000Nm<sup>3</sup>/Hour

Dew point: ≤-40

Air source pressure: 0.75-1.0Mpa

Nitrogen-making pressure: 0.1-0.6Mpa

Oxygen content: 5000ppm-100ppm

Water content: 100ppm

### Material

Carbon steel, Stainless steel 304

### NOTICE

The following parameters, drawings, and photos are only for your reference. The final accurate product information will be supplied with the quotation packages.

Detail specification please contact our sales.



Suzhou Gaopu Ultra pure gas technology Co.,Ltd

+8613912609547

luyycn@163.com

nitrogengeneratorsystem.com

No.161 Zhongfeng Street, Suzhou New District, Suzhou, P.R.China