

Carbon Molecular Sieve CMS PSA Nitrogen Generator System OEM

Our Product Introduction

for more products please visit us on nitrogengeneratorsystem.com

Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: NG
- Minimum Order Quantity: 1set
- Price: negotiation
- Packaging Details: Plywood or other type
- Delivery Time: 25work days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 4set/month



Product Specification

- Movable: Customize
- Oxygen Analyzer: Included
- Technology: Modularisation
- Atmospheric Dew Point: ≤ 60
- Application: Chips Packing Machine
- Dew Point: ≤ -40
- Discharge Pressure: 0.3-0.6 Mpa
- Reliability: High
- Port: Shanghai
- Type: TY50-395
- Oem: Offered
- Control Type: PLC Control
- Key Selling Points: Competitive Price
- Nitrogen Dew Point: -40 Or -60
- Certificates: CE, ISO



More Images



Product Description

300Nm³/h@99.99%, Nitrogen is preferred for high flow rates, as it has low cost, high reliability, and good stability

PSA Nitrogen Generator

Description

PSA Nitrogen Generators (Pressure Swing Adsorption) Technology

PSA technology utilizes two towers which are filled with carbon molecular sieve (CMS). Compressed air enters the bottom of the "online" tower and flows up through the CMS. Oxygen and other trace gases are preferentially adsorbed by the CMS, allowing nitrogen to pass through. After a pre-set time the on-line tower automatically switches to the regenerative mode, venting contaminants from the CMS. Carbon molecular sieve differs from ordinary activated carbons as it has a much narrower range of pore openings. This allows small molecules such as oxygen to penetrate the pores and separate from nitrogen molecules which are too large to enter the CMS. The larger molecules by-pass the CMS and emerge as nitrogen gas. PSA nitrogen generators are typically used in applications where the purity requirement is higher than 99.5% (0.5% O₂ or below).

PSA Nitrogen Generators are supplied to our customers as complete systems, ready for hookup to a compressed air supply, and include air filters and controls for automatic operation. Getting started with your PSA Nitrogen Generator is simple too – just start up the PSA nitrogen generators by a switch and you're good to go. Maintenance is easy as well. You will only be required to change the filters on your PSA Nitrogen Generators every three to twelve months.

Nitrogen gas has a wide range of applications across various fields. Here are some key areas where nitrogen gas is utilized:

Food and Beverage Industry: Nitrogen gas is used for food packaging to extend product shelf life by displacing oxygen, preventing spoilage, and maintaining freshness.

Chemical Industry: Nitrogen gas is employed as an inert gas to prevent unwanted reactions and degradation of sensitive substances during chemical manufacturing processes.

Electronics and Semiconductors: Nitrogen gas is crucial for purging and preventing oxidation during the production of electronic components and semiconductors, ensuring their quality.

Pharmaceuticals and Healthcare: Nitrogen gas is used to create oxygen-free environments for drug manufacturing, storage, and transportation, preserving the potency and stability of pharmaceuticals.

Oil and Gas Industry: Nitrogen gas is utilized for enhanced oil recovery techniques, purging pipelines, and tanks to prevent the formation of explosive mixtures and ensure safety during maintenance.

Metal Processing: Nitrogen gas is employed in metal heat treatment processes to create oxygen-free atmospheres, preventing oxidation and ensuring desired metallurgical properties.

Aerospace Industry: Nitrogen gas is used for purging and pressurizing fuel and hydraulic systems in aircraft, providing a non-reactive and safe medium.

Laser Cutting and Welding: Nitrogen gas acts as an assist gas in laser cutting and welding applications, preventing oxidation and ensuring high-quality cuts or welds.

Fire Suppression Systems: Nitrogen gas is utilized in fire suppression systems, displacing oxygen and suffocating fires without leaving residue or damaging equipment.

Tire Inflation: Nitrogen gas is increasingly used for tire inflation due to its ability to maintain consistent pressure, reduce tire degradation, and improve fuel efficiency.

In addition to these applications, nitrogen gas is used in cryogenic freezing, air conditioning, purging and blanketing in storage tanks, and various analytical and research applications. The versatility and inert properties of nitrogen gas make it an essential resource in numerous industries.

Specification

Box PSA Nitrogen Generator

Nitrogen capacity : 300Nm³/h

Nitrogen purity : 95%-99.999%

Nitrogen pressure : 0.5-0.8Mpa(boost for high pressure)

Nitrogen dew point : ≤-40 (Atmosphere pressure)

Control power supply : 0.2kw 110-240V 50Hz



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