

Food Packaging On-site Nitrogen Solutions Separation Nitrogen Generator Operating 0.6-1.5 MPa Pressure Gas Supply System

Our Product Introduction

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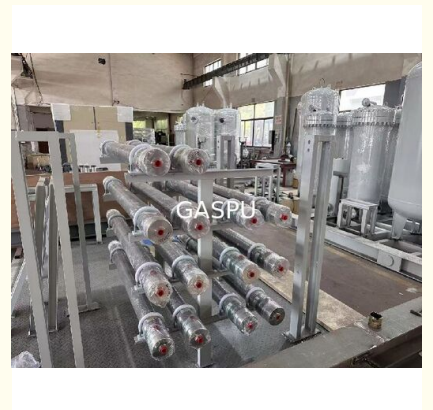
Basic Information

- Brand Name: Membrane Generation
- Model Number: 001



Product Specification

- Material: Carbon Molecular Sieve,Stainless Steel
- Operation Mode: Fully Automatic
- Flow Rate: 0-500ml/min
- Applicationareas: Electronics, Food Packaging, Chemical Industry, Metallurgy
- Type: Membrane Nitrogen Generator
- Powersupply: 220V/380V, 50Hz/60Hz
- Membranematerial: Polymeric Membrane
- Productname: Membrane Separation Nitrogen Generator
- Highlight: **Membrane nitrogen generator for food packaging**
, High-pressure nitrogen gas supply system,
On-site nitrogen separation generator



Product Description:

The Membrane Separation Nitrogen Generator is an advanced and efficient solution designed to provide reliable on-site nitrogen generation for a variety of industrial and laboratory applications. Utilizing cutting-edge membrane technology, this generator offers a convenient and cost-effective alternative to traditional nitrogen supply methods, enabling users to produce nitrogen gas directly at their facility without the need for bulky cylinders or complex infrastructure.

At the core of the Membrane Separation Nitrogen Generator is the hollow fiber membrane module, which ensures optimal gas separation performance and durability. This membrane module is engineered to deliver a consistent flow rate ranging from 0 to 500 ml/min, making it suitable for applications requiring precise and controlled nitrogen delivery. The hollow fiber design enhances the surface area for gas permeation, thereby improving efficiency and extending the operational lifespan of the membrane.

One of the key benefits of this generator is its impressive membrane life, which ranges between 10 to 15 years under normal operating conditions. This long service life minimizes maintenance requirements and reduces the total cost of ownership, making it a valuable investment for businesses seeking reliable and sustainable nitrogen generation solutions. The membrane's robust construction ensures stable performance over time, even in demanding environments.

The Membrane Separation Nitrogen Generator operates on a standard power supply of 220V or 380V with frequency options of 50Hz or 60Hz, ensuring compatibility with various electrical systems worldwide. Additionally, the generator is designed with noise levels below 65 dB, providing a quiet and unobtrusive user experience suitable for both industrial settings and laboratory environments where low noise is essential.

It is important to note that membrane generators produce a lower purity of nitrogen when directly compared to other nitrogen generation technologies such as Pressure Swing Adsorption (PSA) systems. However, for many applications, the purity level provided by membrane technology is more than sufficient and offers the advantage of continuous, on-demand nitrogen production without the need for high-pressure equipment or complex operational procedures.

This makes the Membrane Separation Nitrogen Generator an excellent choice for a wide range of industries including food packaging, electronics manufacturing, chemical processing, and pharmaceutical production. The generator's ability to produce nitrogen on-site significantly reduces logistics costs and eliminates dependence on external gas suppliers, enhancing operational efficiency and ensuring a steady supply of nitrogen gas whenever needed.

In summary, the Membrane Separation Nitrogen Generator represents a robust, efficient, and user-friendly on-site nitrogen solution. With its hollow fiber membrane module, extended membrane life of 10 to 15 years, flexible flow rate up to 500 ml/min, and low noise operation under 65 dB, it is designed to meet the diverse needs of modern industries. By choosing this generator, users benefit from reliable nitrogen production, decreased operational costs, and the convenience of an on-site nitrogen solution that supports sustainable and uninterrupted workflows.

Applications:

The Membrane Generation Model 001 Nitrogen Generator, originating from Suzhou, China, is an advanced solution designed for various industrial and commercial applications. Utilizing the membrane separation method of producing nitrogen, this generator efficiently separates nitrogen from compressed air using high-quality carbon molecular sieve and stainless steel materials. Operating at a working pressure of 0.6-1.5 MPa and compatible with power supplies of 220V/380V at 50Hz/60Hz, it ensures reliable and continuous nitrogen production with a noise level below 65 dB, making it suitable for environments requiring low noise interference.

This membrane generator is ideal for applications where moderate nitrogen purity is sufficient. Since membrane generators produce a lower purity of nitrogen when directly compared to other nitrogen generation technologies such as PSA or cryogenic methods, they are best suited for processes that do not demand ultra-high purity nitrogen. Common usage scenarios include food packaging and preservation, where nitrogen is used to displace oxygen and extend shelf life, and in the electronics industry for creating inert atmospheres during manufacturing to prevent oxidation.

Additionally, the Membrane Generation 001 nitrogen generator is widely applied in chemical and pharmaceutical industries for blanketing and purging tanks and reactors, ensuring safety by reducing the risk of explosions and contamination. Its compact design and low noise level make it suitable for on-site nitrogen generation in laboratories and small-scale production facilities where space and noise constraints are critical considerations.

In the automotive sector, this nitrogen generator supports tire inflation systems, helping to maintain tire pressure longer and improve fuel efficiency. It is also used in laser cutting and welding processes where an inert atmosphere is necessary to enhance the quality and precision of the workpiece. The versatility of the Membrane Generation 001 model makes it a practical choice for industries seeking cost-effective, continuous nitrogen supply without complex installation requirements.

Overall, the membrane separation method of producing nitrogen embodied by the Membrane Generation 001 offers a balance between efficiency, cost, and operational convenience. While membrane generators produce a lower purity of nitrogen when directly compared to other methods, their ease of use, low maintenance, and environmental friendliness make them an excellent option for a broad range of nitrogen application occasions and scenarios.

Customization:

Membrane Generation offers customized solutions for the Membrane Separation Nitrogen Generator, model number 001, originating from Suzhou, China. This fully automatic generator utilizes advanced polymeric membrane materials combined with carbon molecular sieve and stainless steel to ensure durable and efficient operation. Available with a power supply of 220V/380V and 50Hz/60Hz, it is designed to meet diverse industrial requirements.

Our membrane separation method of producing nitrogen provides a reliable and cost-effective alternative, although membrane generators produce a lower purity of nitrogen when directly compared to other nitrogen generation technologies. Despite this, the Membrane Separation Nitrogen Generator delivers consistent performance suitable for applications where ultra-high purity is not critical.

Membrane Generation's product customization services allow clients to tailor the generator specifications, including power options and material configurations, ensuring optimal integration into their existing systems. Trust in our expertise to provide a high-quality, efficient solution for your nitrogen generation needs.

Support and Services:

Our Membrane Separation Nitrogen Generator is designed to provide reliable and efficient nitrogen gas production for various industrial applications. To ensure optimal performance and longevity of your generator, we offer comprehensive technical support and services. Technical Support includes assistance with installation, operation, troubleshooting, and maintenance of the membrane nitrogen generator. Our expert team is available to guide you through the setup process, help optimize system parameters, and resolve any issues that may arise during operation.

We also provide detailed user manuals, maintenance schedules, and operational guidelines to help you maintain the system in peak condition. Regular maintenance services such as membrane inspection, filter replacement, and system calibration are recommended to ensure consistent nitrogen purity and flow rates.

In addition, we offer training sessions for your staff to familiarize them with the operation and upkeep of the membrane separation nitrogen generator. This training helps maximize system efficiency and reduces downtime.

For customers requiring customized solutions, we provide consultation services to tailor the nitrogen generation system to specific application requirements, ensuring seamless integration into your existing processes.

Our commitment to quality and customer satisfaction means that we continuously update and improve our products and services. Should you require any assistance or have questions regarding your membrane separation nitrogen generator, our technical support team is ready to help.



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