

Membrane Life 10-15 Years Fully Automatic Membrane Separation Nitrogen Generator Designed for Nitrogen Production and Energy Saving

Our Product Introduction

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Basic Information

- Brand Name: Membrane Generation
- Model Number: 001



Product Specification

- Flowrate: 1 - 1000 Nm³/h
- Working Pressure: 0.6-1.5 MPa
- Productname: Membrane Separation Nitrogen Generator
- Noiselevel: < 65 DB
- Material: Carbon Molecular Sieve,Stainless Steel
- Membranematerial: Polymeric Membrane
- Usage: Nitrogen
- Flow Rate: 0-500ml/min
- Highlight: fully automatic membrane nitrogen generator, energy saving nitrogen production machine, long lifespan membrane separation generator



Product Description:

The Membrane Separation Nitrogen Generator is an advanced and reliable solution designed to provide high-purity nitrogen gas through the innovative membrane separation method of producing nitrogen. This system is engineered to meet the growing demand for efficient and on-site nitrogen solutions, delivering nitrogen directly where it is needed without the need for bulky storage tanks or frequent cylinder replacements. Using cutting-edge membrane technology, the generator ensures a continuous and stable supply of nitrogen gas, making it an ideal choice for various industrial applications.

At the core of the Membrane Separation Nitrogen Generator is its high-quality hollow fiber membrane module, which plays a crucial role in the separation process. The hollow fiber membranes effectively separate nitrogen from compressed air by allowing oxygen, water vapor, and other impurities to permeate through the membrane fibers while retaining nitrogen gas. This selective permeation results in a nitrogen-rich gas stream with minimal contaminants, ensuring a consistent and reliable output. The membrane module's design not only enhances separation efficiency but also contributes to the compactness and lightweight nature of the generator.

Operating within a working pressure range of 0.6 to 1.5 MPa, the Membrane Separation Nitrogen Generator is capable of meeting diverse operational demands. This wide working pressure range offers flexibility in various industrial setups, allowing the generator to function optimally under different conditions while maintaining high nitrogen purity and flow rates. The ability to operate effectively across this range makes it suitable for applications such as food packaging, electronics manufacturing, chemical processing, and pharmaceutical production, where precision and purity are critical.

One of the standout features of this Separation Nitrogen Generator is the impressive membrane life, which spans between 10 to 15 years. This long service life reduces the need for frequent membrane replacements, lowering maintenance costs and downtime. The durability of the hollow fiber membranes is a testament to the superior materials and manufacturing processes used in the generator, ensuring that users can rely on stable performance for many years. This longevity also contributes to the overall cost-effectiveness of the system, making it a smart investment for companies seeking sustainable and efficient nitrogen production.

The Membrane Separation Nitrogen Generator offers a clean, safe, and environmentally friendly alternative to traditional nitrogen supply methods. By utilizing the membrane separation method of producing nitrogen, it eliminates the risks associated with handling high-pressure nitrogen cylinders and minimizes the carbon footprint related to nitrogen transportation. Furthermore, the on-site nitrogen solutions provided by this generator enable businesses to reduce operational interruptions and improve process control, as nitrogen is produced exactly when and where it is required.

In summary, the Membrane Separation Nitrogen Generator combines advanced membrane technology with robust engineering to deliver an efficient, reliable, and cost-effective nitrogen production system. Its hollow fiber membrane module ensures high purity nitrogen output, while the flexible working pressure range and long membrane life make it adaptable and durable for various industrial uses. By embracing the membrane separation method of producing nitrogen, this generator provides a modern and sustainable solution for on-site nitrogen generation, empowering industries to enhance productivity and maintain high-quality standards with ease.

Applications:

The Membrane Separation Nitrogen Generator, model number 001 from Membrane Generation, is a cutting-edge solution originating from Suzhou, China. Utilizing the advanced membrane separation method of producing nitrogen, this generator employs high-quality materials such as Carbon Molecular Sieve and Stainless Steel, combined with a sophisticated hollow fiber membrane module to ensure efficient and reliable nitrogen production. Its fully automatic operation mode makes it an ideal choice for industries requiring consistent and high-purity nitrogen supply with minimal manual intervention.

This product finds extensive applications across various industries. In the electronics sector, the Membrane Separation Nitrogen Generator is essential for creating inert atmospheres during the manufacturing and assembly of sensitive components, preventing oxidation and contamination. The fully automated system guarantees a steady nitrogen supply, which enhances product quality and reduces downtime.

In food packaging, the Skid Membrane Separation Nitrogen Generator plays a crucial role in extending the shelf life of perishable goods. By replacing oxygen with nitrogen in packaging environments, it helps maintain freshness, color, and flavor while inhibiting the growth of aerobic bacteria. The compact and skid-mounted design allows for easy integration into existing production lines, optimizing space and operational efficiency.

The chemical industry benefits significantly from the membrane separation method of producing nitrogen provided by this generator. It is used for creating inert atmospheres in chemical reactions, preventing unwanted oxidation or combustion. The robust construction using stainless steel ensures durability and resistance to corrosive chemicals, making it suitable for harsh industrial environments.

In metallurgy, the Membrane Separation Nitrogen Generator supports processes such as annealing and heat treatment by supplying high-purity nitrogen that safeguards metals from oxidation and contamination. The hollow fiber membrane module ensures continuous nitrogen flow with consistent purity, which is critical for maintaining material quality and performance.

Overall, the Membrane Generation brand's Membrane Separation Nitrogen Generator model 001 delivers a reliable, efficient, and fully automated nitrogen generation solution tailored for electronics, food packaging, chemical industry, and metallurgy. Its innovative membrane technology, combined with durable materials and a compact skid-mounted design, makes it an indispensable asset for modern industrial applications requiring high-purity nitrogen.

Customization:

Membrane Generation offers customized Membrane Separation Nitrogen Generator solutions tailored to meet your specific needs. Our Model 001 Membrane Separation Nitrogen Generator, originating from Suzhou, China, features a flow rate range of 0-500ml/min and boasts a membrane life of 10-15 years, ensuring long-lasting and reliable performance.

As a fully automatic Membrane Separation Nitrogen Generator, it supports automatic operation for ease of use and efficiency. We provide flexible customization services to adjust the flow rate, operation mode, and other parameters to perfectly suit your application requirements.

Choose Membrane Generation for your Membrane Separation Nitrogen Generator needs and benefit from advanced technology, durable membranes, and seamless automatic operation that enhances productivity and safety in your processes.

Support and Services:

Our Membrane Separation Nitrogen Generator is designed to provide reliable and efficient nitrogen production for a variety of industrial applications. To ensure optimal performance and longevity of your equipment, we offer comprehensive technical support and services. Our technical support team is available to assist you with installation guidance, operational troubleshooting, and maintenance procedures. We provide detailed user manuals and operational training to help your staff operate the generator safely and effectively. Regular maintenance services are recommended to maintain the efficiency and purity levels of the nitrogen produced. Our service packages include membrane module inspection, replacement services, and system diagnostics to identify and resolve any potential issues promptly.

We also offer customized solutions and upgrades tailored to your specific application requirements. Our experts can help optimize your nitrogen generation system to enhance productivity and reduce operational costs.

For any technical inquiries or service requests, our support team is committed to providing timely and professional assistance to minimize downtime and ensure continuous operation of your Membrane Separation Nitrogen Generator.



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