

## Noiselevel less than 65 DB Fully Automatic Membrane Separation Nitrogen Generator Ensuring Continuous Nitrogen Production

Our Product Introduction

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### Basic Information

- Brand Name: Membrane Generation
- Model Number: 001



### Product Specification

- Membrane Module: Hollow Fiber
- Working Pressure: 0.6-1.5 MPa
- Membranematerial: Polymeric Membrane
- Powersupply: 220V/380V, 50Hz/60Hz
- Usage: Nitrogen
- Applicationareas: Electronics, Food Packaging, Chemical Industry, Metallurgy
- Operation Mode: Fully Automatic
- Type: Membrane Nitrogen Generator
- Highlight: **fully automatic membrane nitrogen generator, low noise membrane nitrogen generator, continuous production nitrogen generator**



### Product Description:

The Membrane Separation Nitrogen Generator is an advanced and efficient solution designed for the continuous production of high-purity nitrogen gas. Utilizing the membrane separation method of producing nitrogen, this generator offers a reliable and cost-effective alternative to traditional nitrogen supply systems. Its innovative technology ensures the separation of nitrogen from compressed air through selective permeable membranes, allowing nitrogen molecules to pass while oxygen and other gases are filtered out. This results in a steady stream of nitrogen with purity levels adjustable to meet specific industrial requirements.

Specifically engineered to serve a wide range of industries, the Membrane Separation Nitrogen Generator finds extensive applications in electronics manufacturing, food packaging, the chemical industry, and metallurgy. In the electronics sector, nitrogen is crucial for creating inert atmospheres to prevent oxidation and improve product quality. For food packaging, the generator helps extend shelf life by replacing oxygen with nitrogen, thereby preserving freshness and preventing spoilage. Within the chemical industry, nitrogen is utilized as a protective gas to enhance safety and maintain the integrity of reactive substances. Metallurgy benefits from the generator by using nitrogen to create controlled atmospheres for heat treatment processes, ensuring superior material properties.

One of the standout features of the Membrane Separation Nitrogen Generator is its fully automatic operation. This enables the system to function with minimal human intervention, reducing labor costs and the potential for operational errors. The automation ensures consistent nitrogen output and purity, which is critical for maintaining process stability across various applications. Additionally, the generator is designed with user-friendly controls and monitoring systems, making it easy to integrate into existing production lines. The Membrane Separation Nitrogen Generator operates efficiently on a power supply of 220V/380V and supports both 50Hz and 60Hz frequencies, making it adaptable to different regional electrical standards. This flexibility allows for seamless installation and operation across global markets without the need for complex modifications. The robust electrical design also contributes to the generator's reliability and long service life, ensuring continuous nitrogen production even in demanding industrial environments.

With its compact design and low maintenance requirements, the Membrane Separation Nitrogen Generator is an ideal choice for businesses seeking to improve operational efficiency and reduce costs associated with nitrogen procurement and storage. The membrane separation method of producing nitrogen not only eliminates the need for bulky and potentially hazardous nitrogen cylinders but also provides on-site, on-demand nitrogen generation, enhancing safety and convenience.

In summary, the Membrane Separation Nitrogen Generator combines cutting-edge membrane technology with practical features tailored for diverse industrial applications. Its ability to deliver high-purity nitrogen automatically and reliably, coupled with compatibility across different power supplies, makes it an indispensable tool in electronics, food packaging, chemical processing, and metallurgy. Investing in this generator means ensuring a stable nitrogen supply that supports product quality, operational safety, and overall efficiency.

### Applications:

The Membrane Generation brand, model 001, is a state-of-the-art Skid Membrane Separation Nitrogen Generator manufactured in Suzhou, China. Designed for efficiency and reliability, this nitrogen generator utilizes the membrane separation method of producing nitrogen, employing high-quality polymeric membranes combined with carbon molecular sieve and stainless steel materials to ensure durability and consistent performance. With a power supply of 220V/380V at 50Hz/60Hz and an automatic operation system, it offers ease of use and seamless integration into various industrial setups.

This membrane generator is ideal for application occasions where nitrogen is required continuously and reliably but where extremely high purity is not critical. Membrane generators produce a lower purity of nitrogen when directly compared to other nitrogen generation technologies such as PSA or cryogenic methods, making them perfect for industries that require nitrogen with moderate purity levels for processes like food packaging, electronics manufacturing, and chemical processing.

In food packaging, the Skid Membrane Separation Nitrogen Generator helps extend the shelf life of perishable goods by providing a controlled nitrogen environment that inhibits oxidation and bacterial growth. Its low noise level of less than 65 dB ensures a quiet operation, suitable for use in food production facilities where noise regulations are stringent. Similarly, in the electronics industry, nitrogen generated through the membrane separation method of producing nitrogen is used to create inert atmospheres that prevent oxidation during soldering and assembly processes.

The generator's compact skid-mounted design makes it highly versatile and easy to install in various industrial settings, including laboratories, pharmaceutical companies, and chemical plants. It is particularly beneficial in scenarios where space is limited, and an on-site nitrogen supply is preferred over bulky, high-maintenance gas cylinders. Additionally, the automatic operation feature reduces the need for constant monitoring, making it an excellent choice for continuous nitrogen supply applications.

Furthermore, the membrane separation nitrogen generator is well-suited for applications like tire inflation, metal heat treatment, and oil and gas industries, where moderate purity nitrogen is sufficient for inerting, blanketing, or pressurization purposes. Its robust construction utilizing stainless steel and carbon molecular sieve materials ensures longevity and resistance to wear, even in demanding environments. Overall, the Membrane Generation 001 model combines advanced membrane technology, user-friendly automatic operation, and durable materials to provide an economical and reliable nitrogen generation solution for a wide range of industrial application occasions and scenarios.

### Customization:

Membrane Generation offers customized Skid Membrane Separation Nitrogen Generators designed to meet your specific requirements. Our Model 001 Membrane Separation Nitrogen Generator, originating from Suzhou China, utilizes the advanced membrane separation method of producing nitrogen to deliver a reliable and efficient nitrogen supply. With a versatile flowrate range of 1 - 1000 Nm<sup>3</sup>/h and a power supply option of 220V/380V at 50Hz/60Hz, this generator ensures compatibility with various industrial settings. Featuring automatic operation for ease of use and a membrane life expectancy of 10-15 years, our product guarantees long-term performance and minimal maintenance. Trust Membrane Generation for tailor-made solutions in membrane separation nitrogen generation.

### Support and Services:

Our Membrane Separation Nitrogen Generator is designed to provide reliable and efficient nitrogen production for various industrial applications. To ensure optimal performance and longevity of your generator, we offer comprehensive technical support and services. Technical support includes expert guidance on installation, operation, and maintenance of the membrane separation system. Our team is equipped to assist with troubleshooting, system optimization, and performance evaluation to help you achieve the desired nitrogen purity.

and flow rates.

We provide detailed user manuals and maintenance schedules to facilitate routine inspections and preventive care. Regular servicing by our certified technicians is recommended to maintain system integrity and to prevent unexpected downtime.

Replacement parts and membrane modules are readily available to ensure quick repairs and minimal disruption to your operations. Additionally, we offer training programs for your staff to enhance their understanding of the generator's functionality and care requirements.

Our commitment is to deliver continuous support and professional services that maximize the efficiency and reliability of your Membrane Separation Nitrogen Generator.



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