

## Flowrate 1 to 1000 Nm3h Membrane Separation Nitrogen Generator Utilizing Carbon Molecular Sieve Technology for Nitrogen Supply

Our Product Introduction

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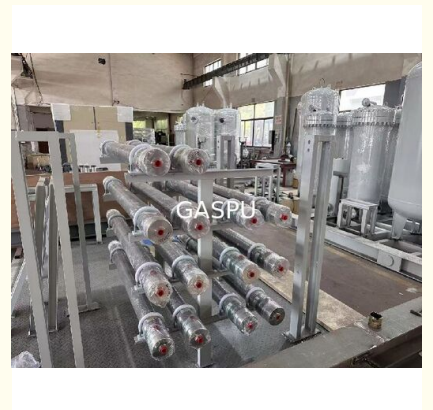
### Basic Information

- Brand Name: Membrane Generation
- Model Number: 001



### Product Specification

- Working Pressure: 0.6-1.5 MPa
- Powersupply: 220V/380V, 50Hz/60Hz
- Productname: Membrane Separation Nitrogen Generator
- Type: Membrane Nitrogen Generator
- Material: Carbon Molecular Sieve,Stainless Steel
- Noiselevel: < 65 DB
- Automatic Operation: Yes
- Operation Mode: Fully Automatic
- Highlight: **membrane separation nitrogen generator with carbon molecular sieve , high flowrate nitrogen generator 1000 Nm3h , industrial nitrogen supply generator with warranty**



### Product Description:

The Membrane Separation Nitrogen Generator is an advanced and efficient solution designed to provide high-purity nitrogen gas for a wide range of industrial applications. Utilizing cutting-edge membrane separation technology, this generator offers reliable on-site nitrogen solutions that eliminate the need for traditional nitrogen supply methods, such as cylinders or bulk deliveries. This not only ensures a continuous and uninterrupted nitrogen supply but also significantly reduces operational costs and enhances safety in your facility.

Constructed with high-quality materials, including Carbon Molecular Sieve and Stainless Steel, the Membrane Separation Nitrogen Generator is engineered for durability and long-lasting performance. The Carbon Molecular Sieve plays a crucial role in the separation process, selectively allowing nitrogen to pass through while effectively removing oxygen and other gases. The stainless steel components ensure robust structural integrity and resistance to corrosion, making the generator suitable for use in demanding industrial environments. One of the standout features of this generator is its fully automatic operation mode. The system is designed for ease of use and minimal maintenance, allowing operators to focus on their core tasks without worrying about complex adjustments or manual interventions. The automation ensures optimal performance, energy efficiency, and consistent nitrogen purity levels, making it an ideal choice for businesses seeking reliable on-site nitrogen solutions.

The membrane life of the generator is an impressive 10 to 15 years, reflecting the high-quality materials and precision engineering involved in its manufacture. This extended membrane lifespan translates to lower replacement costs and reduced downtime, further enhancing the overall cost-effectiveness of the system. Additionally, the generator operates with a noise level of less than 65 dB, ensuring a quiet working environment and minimizing noise pollution in your facility.

Designed as a Skid Membrane Separation Nitrogen Generator, this product offers a compact and modular solution that can be easily integrated into existing production lines or facilities. The skid-mounted design allows for straightforward installation, transportation, and relocation if necessary, providing maximum flexibility for various operational needs. This feature is particularly beneficial for industries that require mobility or frequent reconfiguration of their production setups.

The Membrane Separation Nitrogen Generator is highly versatile and finds extensive application across multiple industries. In the electronics sector, it is used to create an inert atmosphere for manufacturing sensitive components, preventing oxidation and improving product quality. In the food packaging industry, nitrogen generated on-site helps extend shelf life by displacing oxygen and reducing spoilage. The chemical industry benefits from the generator by utilizing nitrogen for blanketing and purging processes that require a controlled atmosphere. Furthermore, in metallurgy, the generator supports processes that demand high-purity nitrogen to prevent oxidation and other unwanted reactions during metal treatment.

In summary, the Membrane Separation Nitrogen Generator offers a robust, efficient, and cost-effective solution for on-site nitrogen generation. Its use of Carbon Molecular Sieve and Stainless Steel materials, fully automatic operation mode, long membrane life, low noise levels, and skid-mounted design make it an excellent choice for industries such as electronics, food packaging, chemical processing, and metallurgy. By adopting this Skid Membrane Separation Nitrogen Generator, businesses can ensure a reliable and continuous nitrogen supply, optimize operational efficiency, and reduce environmental impact, all while benefiting from cutting-edge on-site nitrogen solutions.

### Applications:

The Membrane Generation 001 Membrane Separation Nitrogen Generator, originating from Suzhou, China, is a state-of-the-art solution designed to meet diverse industrial nitrogen needs through the innovative membrane separation method of producing nitrogen. This fully automatic generator operates seamlessly with a power supply of 220V/380V and frequency options of 50Hz/60Hz, ensuring flexible integration into various operational environments. Utilizing advanced polymeric membrane material, it efficiently separates nitrogen from compressed air, providing a reliable and continuous supply of nitrogen gas for a wide range of applications.

One of the primary application occasions for the Membrane Generation 001 is in industries requiring on-site nitrogen solutions. Unlike traditional nitrogen supply methods, this membrane separation nitrogen generator offers the advantage of producing nitrogen on demand, eliminating the need for bulky storage tanks or frequent cylinder replacements. This feature is particularly beneficial in manufacturing plants, food packaging facilities, and chemical processing units where consistent nitrogen flow is critical for maintaining product quality and safety.

Although membrane generators produce a lower purity of nitrogen when directly compared to cryogenic or pressure swing adsorption (PSA) methods, the Membrane Generation 001 is ideal for scenarios where ultra-high purity is not mandatory. It is extensively used in electronics manufacturing, pharmaceutical production, and metal fabrication industries, where nitrogen is employed to create inert atmospheres, prevent oxidation, and enhance product longevity. Its fully automatic operation mode ensures minimal human intervention, reducing labor costs and increasing operational efficiency.

Moreover, the Membrane Generation 001 is well-suited for environmental and laboratory applications where stable and continuous nitrogen supply is essential. Its compact design and ease of installation make it an excellent choice for on-site nitrogen generation in remote or space-constrained locations. Food and beverage companies also benefit from this generator by using nitrogen for packaging and preservation, extending shelf life and maintaining freshness without compromising product integrity.

In summary, the Membrane Generation 001 Separation Nitrogen Generator represents a versatile, cost-effective, and eco-friendly nitrogen production solution. Its reliance on the membrane separation method of producing nitrogen, combined with fully automatic operation and robust polymeric membrane technology, positions it as a preferred choice for industries seeking reliable on-site nitrogen solutions without the complexities of high-purity requirements.

### Customization:

Membrane Generation offers customized on-site nitrogen solutions Separation Nitrogen Generator tailored to meet your specific requirements. Our Membrane Separation Nitrogen Generator, model number 001, is designed and manufactured in Suzhou, China, ensuring high quality and reliability. With a flow rate ranging from 0-500ml/min and a noise level below 65 DB, this generator provides efficient and quiet operation suitable for various industries.

Our product supports multiple power supply options, including 220V/380V and 50Hz/60Hz, allowing seamless integration into your existing systems. The Membrane Separation Nitrogen Generator is ideal for application areas such as electronics, food packaging, chemical industry, and metallurgy, delivering consistent and pure nitrogen on-site.

Choose Membrane Generation's on-site nitrogen solutions Separation Nitrogen Generator for a customized, efficient, and dependable nitrogen generation system that perfectly fits your industrial needs.

## Support and Services:

Our Membrane Separation Nitrogen Generator comes with comprehensive technical support and services to ensure optimal performance and longevity. We provide expert installation guidance, routine maintenance advice, and troubleshooting assistance. Our technical team is available to assist with system configuration, operational training, and performance optimization. We also offer replacement parts and upgrade options to keep your nitrogen generator operating at peak efficiency. Regular service contracts and on-site support are available to minimize downtime and extend the life of your equipment.



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