

## Nitrogen Purity 95 To 99999 Percent Membrane Separation Nitrogen Generator Carbon Steel Dew Point Minus 40 Celsius Or Lower For Nitrogen Supply

Our Product Introduction

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### Basic Information

- Brand Name: Membrane Generation
- Certification: ISO0001
- Model Number: 001
- Minimum Order Quantity: 1
- Price: \$100000
- Packaging Details: In Carton
- Delivery Time: The Complete Set Of Equipment Will Be Provided Within 45 Days After Receiving The Advance Payment.
- Payment Terms: 40% Of The Contract Amount Is Prepaid; 60% Of The Contract Amount Is Paid After The Goods Are Inspected And Approved Before Shipment. 5.4Equipment Unloading And Positioning



### Product Specification

- Shell: CS
- Dew Point: -40°C Or Lower
- Weight: 150 - 500 Kg Depending On Model
- Start-Up Time: Less Than 10 Minutes
- Productname: Membrane Separation Nitrogen Generator
- Flowrate: 1-1000 Nm<sup>3</sup>/h
- Membranematerial: Polymeric Membrane
- Operating Temperature: 5°C - 45°C
- Highlight: **Membrane Separation Nitrogen Generator with Carbon Steel**  
**, High Purity Nitrogen Generator 95-99999%, Industrial Nitrogen Supply with Dew Point -40°C**

**Product Description:**

The Membrane Separation Nitrogen Generator is an advanced and efficient solution designed for producing high-purity nitrogen gas on-site. Utilizing the membrane separation method of producing nitrogen, this generator offers a reliable and cost-effective alternative to traditional nitrogen supply methods such as liquid nitrogen tanks and pressure swing adsorption systems. By integrating cutting-edge polymeric membrane technology, the Membrane Separation Nitrogen Generator provides continuous and stable nitrogen flow tailored to meet a wide range of industrial applications.

One of the standout features of this Membrane Separation Nitrogen Generator is its impressive flowrate capability, ranging from 1 to 1000 Nm³/h. This flexibility allows the system to cater to both small-scale and large-scale nitrogen demands, making it an ideal choice for industries such as food packaging, electronics manufacturing, pharmaceuticals, chemical processing, and metal fabrication. The generator's ability to deliver nitrogen at a pressure range of 0.6 to 1.5 MPa further enhances its adaptability, ensuring seamless integration with existing production lines and processes.

At the core of this nitrogen generator lies a high-quality polymeric membrane, which serves as the key separation medium. The membrane selectively allows nitrogen molecules to pass through while effectively blocking oxygen and other gases, resulting in nitrogen with high purity and electrical resistivity greater than 1 megaohm per centimeter (>1M Ω/cm). This high electrical resistivity is especially critical in applications requiring nitrogen with low moisture and oxygen content to prevent oxidation and maintain product quality. Another significant advantage of this on-site nitrogen solution is its rapid start-up time. The Membrane Separation Nitrogen Generator can reach operational status in less than 10 minutes, minimizing downtime and allowing for quick response to fluctuating nitrogen demands. This fast start-up capability enhances operational efficiency and reduces the need for large nitrogen storage tanks, thereby lowering overall operational costs and improving workplace safety.

In addition to its technical performance, the Membrane Separation Nitrogen Generator is designed with user convenience and environmental sustainability in mind. The system requires minimal maintenance due to its robust construction and the durable nature of the polymeric membranes. Furthermore, since it generates nitrogen on-site, it eliminates the need for nitrogen transportation and associated emissions, supporting greener and more sustainable industrial practices.

Overall, the Membrane Separation Nitrogen Generator stands out as a versatile, efficient, and environmentally friendly nitrogen production system. Its combination of high electrical resistivity, adjustable flowrate, suitable pressure range, and quick start-up time makes it a superior choice for businesses seeking reliable on-site nitrogen solutions. Whether you require nitrogen for inerting, blanketing, purging, or other industrial processes, this membrane-based nitrogen generator delivers consistent performance and operational benefits that meet the highest industry standards.

By opting for this Membrane Separation Nitrogen Generator, companies can enjoy the advantages of reduced nitrogen supply costs, enhanced process control, and improved safety measures. The membrane separation method of producing nitrogen ensures a steady and uninterrupted nitrogen supply, enabling your operations to run smoothly and efficiently without dependency on external nitrogen sources. Invest in this innovative on-site nitrogen solution and experience the future of nitrogen generation technology.

**Features:**

- Product Name: Membrane Separation Nitrogen Generator
- Product Model: MSNG-1000
- Electrical Resistivity: >1M Ω/cm
- Shell Material: CS (Carbon Steel)
- Condition: New
- Membrane Material: Polymeric Membrane
- Utilizes the membrane separation method of producing nitrogen
- Skid Membrane Separation Nitrogen Generator design for easy installation and mobility
- Membrane generators produce a lower purity of nitrogen when directly compared to other nitrogen generation methods

**Technical Parameters:**

Dew Point	-40°C Or Lower
Product Model	MSNG-1000
Weight	150 - 500 Kg Depending On Model
Membrane Material	Polymeric Membrane
Material	Carbon Steel
Electrical Resistivity	>1M Ω/cm
Nitrogen Purity	95-99.999%
Start-Up Time	Less Than 10 Minutes
Operating Temperature	5°C - 45°C
Shell	CS

**Applications:**

The Membrane Separation Nitrogen Generator, model number 001 from Membrane Generation, is a cutting-edge solution originating

from Suzhou, China. Certified with ISO0001, this product guarantees quality and reliability in nitrogen production. Utilizing the membrane separation method of producing nitrogen, this generator efficiently separates nitrogen from compressed air to deliver nitrogen purity levels ranging from 95% to 99.999%. The system operates at pressures between 0.6 to 1.5 MPa and is constructed from durable carbon steel, ensuring longevity and robust performance. It supports power supplies of 220V/380V at 50Hz/60Hz, making it versatile for various industrial environments.

This nitrogen generator is ideal for a wide array of application occasions and scenarios. In industrial manufacturing, it is extensively used for inerting, blanketing, and purging processes where a reliable nitrogen supply is critical to prevent oxidation and combustion. The food and beverage industry benefits from the generator by extending product shelf life and maintaining freshness through modified atmosphere packaging. Additionally, the pharmaceutical and chemical sectors utilize it for creating controlled atmospheres during production and storage, ensuring product stability and safety.

Membrane generators produce a lower purity of nitrogen when directly compared to PSA or cryogenic nitrogen generators, making them perfect for applications where ultra-high purity is not mandatory but continuous and cost-effective nitrogen supply is essential. For instance, in electronics manufacturing, this generator helps in soldering and circuit board production by providing an oxygen-free environment. It is also widely employed in the oil and gas industry for pipeline purging and tank blanketing to reduce fire hazards and corrosion.

The Membrane Separation Nitrogen Generator is packaged securely in cartons and is delivered as a complete set of equipment within 45 days after receiving the advance payment. Payment terms require 40% of the contract amount as prepaid, with the remaining 60% payable after inspection and approval before shipment. The equipment includes unloading and positioning services to ensure smooth installation and operation at the customer's site.

Overall, this nitrogen generator from Membrane Generation offers an efficient, reliable, and cost-effective solution for various industrial nitrogen applications, especially where moderate nitrogen purity is sufficient. Its compact design, ease of operation, and compliance with international standards make it a preferred choice for businesses aiming to optimize their nitrogen supply systems.

## Customization:

Brand Name: Membrane Generation

Model Number: 001

Place Of Origin: Suzhou, China

Certification: ISO0001

Minimum Order Quantity: 1

Price: \$100000

Packaging Details: In Carton

Delivery Time: The complete set of equipment will be provided within 45 days after receiving the advance payment.

Payment Terms: 40% of the contract amount is prepaid; 60% of the contract amount is paid after the goods are inspected and approved before shipment.

Pressure: 0.6-1.5 MPa

Condition: New

Product Model: MSNG-1000

Nitrogen Purity: 95-99.999%

Start-Up Time: Less than 10 minutes

Our Skid Membrane Separation Nitrogen Generator offers efficient nitrogen production tailored to your needs. Please note that membrane generators produce a lower purity of nitrogen when directly compared to other technologies; however, our Skid Membrane Separation Nitrogen Generator model MSNG-1000 can achieve nitrogen purity levels ranging from 95% to 99.999%.

We provide full customization services including equipment unloading and positioning to ensure seamless integration into your operations.

## 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 generator, we offer comprehensive technical support and services.

**Technical Support:**

Our experienced technical team is available to assist you with installation, operation, and troubleshooting of your Membrane Separation Nitrogen Generator. We provide detailed user manuals, installation guides, and operational training to help you get the most out of your system. In case of any technical issues, our support staff can guide you through diagnostics and recommend appropriate solutions.

**Maintenance Services:**

Regular maintenance is crucial for maintaining the efficiency and reliability of your nitrogen generator. We offer scheduled maintenance services including membrane replacement, filter changes, and system inspections to ensure your generator operates at peak performance. Our maintenance plans are tailored to meet your specific needs and usage patterns.

**Spare Parts and Upgrades:**

We supply genuine spare parts and components to keep your system running smoothly. Additionally, we provide upgrade options to enhance the capacity and efficiency of your existing nitrogen generator as your operational requirements evolve.

**Training and Consultation:**

To help your team operate and maintain the generator effectively, we offer comprehensive training sessions and on-site consultations. Our experts will work with you to optimize system performance and address any operational challenges.

**Warranty and Service Agreements:**

Our Membrane Separation Nitrogen Generators come with a standard warranty covering parts and workmanship. Extended service agreements are also available to provide ongoing support and ensure uninterrupted operation of your equipment.

By choosing our technical support and services, you can be confident that your Membrane Separation Nitrogen Generator will deliver consistent, high-quality nitrogen tailored to your industrial needs.

## Packing and Shipping:

**Product Packaging:**

The Membrane Separation Nitrogen Generator is carefully packaged to ensure safe delivery and protection during transportation. It is securely packed in a sturdy wooden crate or high-quality cardboard box, depending on the order size and shipping requirements. Inside the packaging, the generator is cushioned with foam inserts and anti-static materials to prevent any damage from shocks or vibrations. All accessories, manuals, and cables are neatly packed alongside the main unit.

**Shipping:**

We offer worldwide shipping for the Membrane Separation Nitrogen Generator through reliable courier and freight services. The product is shipped via air or sea freight based on customer preference and destination. Prior to shipment, all units undergo a thorough inspection

and testing to ensure functionality. Shipping documentation, including the commercial invoice, packing list, and certificate of origin, will be provided. Transit times vary depending on the shipping method and location, typically ranging from 7 to 30 days.

## FAQ:

**Q1: What is the brand and model number of this nitrogen generator?**

A1: The nitrogen generator is from the brand Membrane Generation, and the model number is 001.

**Q2: Where is the Membrane Separation Nitrogen Generator manufactured?**

A2: This product is manufactured in Suzhou, China.

**Q3: What certifications does this nitrogen generator have?**

A3: The Membrane Separation Nitrogen Generator is certified with ISO0001.

**Q4: What is the minimum order quantity and price for this product?**

A4: The minimum order quantity is 1 unit, and the price is \$100,000 per unit.

**Q5: What are the packaging and delivery terms for this nitrogen generator?**

A5: The product is packaged in carton boxes. The complete set of equipment will be provided within 45 days after receiving the advance payment.

**Q6: What are the payment terms for purchasing the Membrane Separation Nitrogen Generator?**

A6: Payment terms are 40% of the contract amount prepaid, and 60% paid after the goods are inspected and approved before shipment.



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