

ARAKI



Safety
Features



Durable
Construction

HYDROGEN GENERATOR

Our advanced hydrogen generator provides a reliable and efficient hydrogen supply for industrial and laboratory applications. Designed for safety and durability, it features high-purity hydrogen production, energy efficiency, and user-friendly operation. With a compact design and low maintenance requirements, it ensures continuous performance, making it ideal for various industries, including electronics, chemical processing, and fuel cell applications



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HYDROGEN MAKING MACHINE



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

1. Versatility:

Hydrogen production machines can be applied to many industries and fields, such as oil and gas, chemistry, laser cutting, electronics, food and beverage, glass, metallurgy, pharmaceuticals, etc. They can meet the hydrogen needs of different industries.

2. Material particularity:

Hydrogen production machine is usually made of high-quality materials, such as stainless steel, alloy, etc., to ensure its corrosion resistance and long life. These special materials can ensure the stable operation of hydrogen production machines in harsh environments.

3. High efficiency:

The hydrogen production machine has an efficient hydrogen production capacity. According to different models and specifications, hydrogen production machines can produce different flow and purity of hydrogen to meet customer needs.

4. Reliability:

Hydrogen production machines under go strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.

5. Environmental protection:

The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

HYDROGEN MAKING MACHINE

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

APPLICATION AREA



Oil & gas



Chemical



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

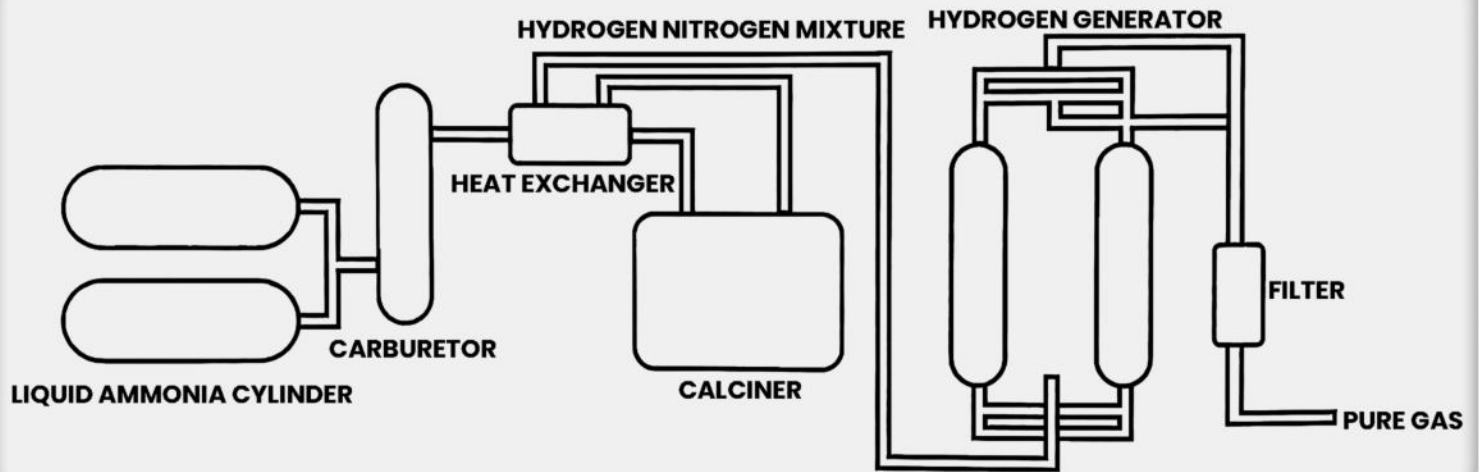


Pharmaceuticals

1. In the petroleum and natural gas industry, hydrogen generators play a crucial role. They can produce hydrogen gas through steam reforming or electrolysis of water, which is used in hydrogenation reactions during oil refining and natural gas processing.
2. In the chemical field, hydrogen generators are used in the production of ammonia, methanol, and other chemicals. They react hydrogen gas with other compounds using catalysts and high-temperature reactions to produce the desired chemical substances.
3. In the laser cutting industry, hydrogen generators provide the required hydrogen gas for lasers. Hydrogen gas is used as a cooling medium and excitation medium in lasers to achieve efficient laser cutting results.
4. In the electronics industry, hydrogen generators are used for cleaning and annealing processes in semiconductor manufacturing. Hydrogen gas can remove surface contaminants and improve the performance of semiconductor devices.
5. In the food and beverage industry, hydrogen generators are used in hydrogenation reactions during food processing and beverage production. They react hydrogen gas with oils or other food ingredients to improve the quality and taste of products.
6. In the glass manufacturing industry, hydrogen generators are used for hydrogen protection during glass melting. Hydrogen gas prevents the formation of bubbles and color variations caused by oxygen and other impurities in the glass.
7. In the metallurgical industry, hydrogen generators are used for hydrogen protection during metal processing and smelting processes. Hydrogen gas prevents oxidation of metals and contamination from impurities, thereby improving the quality and purity of products.
8. In the pharmaceutical industry, hydrogen generators are used for drug synthesis and catalytic reactions. Hydrogen gas acts as a reducing agent and catalyst, facilitating the synthesis and purification processes of pharmaceuticals.

HYDROGEN MAKING MACHINE

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

1. Preparation:

Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.

2. Open the water source:

open the water source valve to make the water flow into the water tank of the hydrogen production machine.

3. Start the hydrogen machine:

press the start button and the hydrogen machine will start to work. Depending on the device model and requirements, the desired hydrogen flow rate and purity can be set.

4. Monitoring operation:

During the operation of the hydrogen production machine, closely monitor the flow and purity of hydrogen generated. You can adjust the parameters as required.

5. Turn off the hydrogen production machine:

When hydrogen is no longer needed, close the water valve first, and then press the stop button to stop the hydrogen production machine.

6. Disconnect:

Wait for the hydrogen machine to cool down, disconnect the hydrogen outlet and water source.

7. Maintenance:

Regular cleaning and maintenance of hydrogen production machine to ensure its normal operation and extend service life.

Please note that the above steps are only general instructions, and the specific steps may vary depending on the hydrogen production model number and manufacturer requirements. Before using the hydrogen generator, be sure to read and follow the relevant operating manuals and safety guidelines.

HYDROGEN FUEL CELL POWER GENERATOR



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Construction



Energy-Efficient
Operation



Safety
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Laser cutting



Electronics



Food and beverages



Glass



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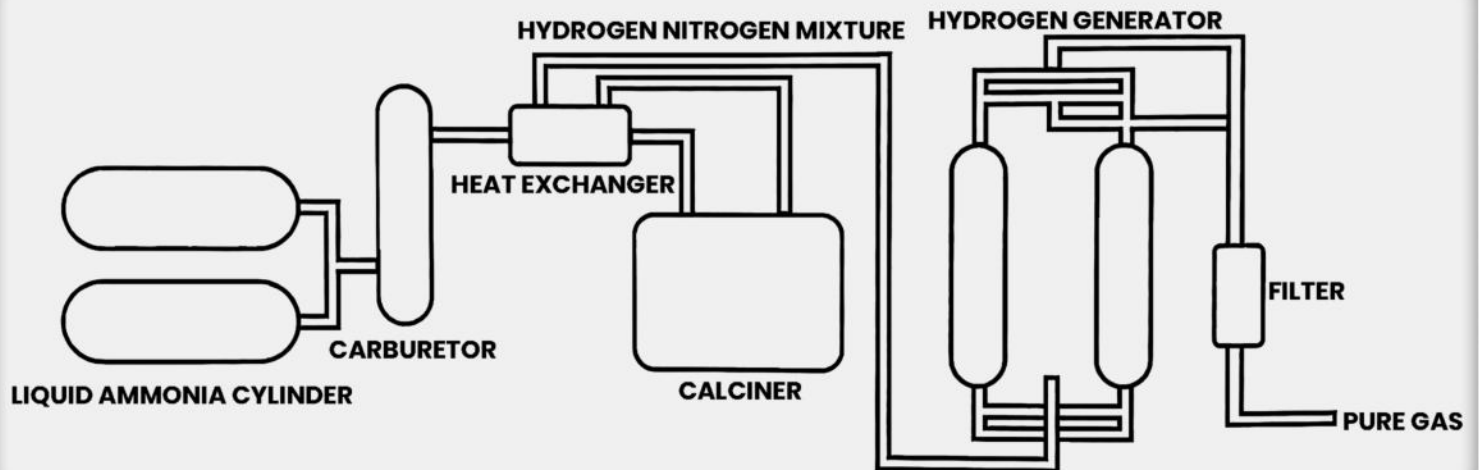


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GREEN HYDROGEN PLANT



Durable Construction



Energy-Efficient Operation



Safety Features



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APPLICATION AREA



Oil & gas



Chemical



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

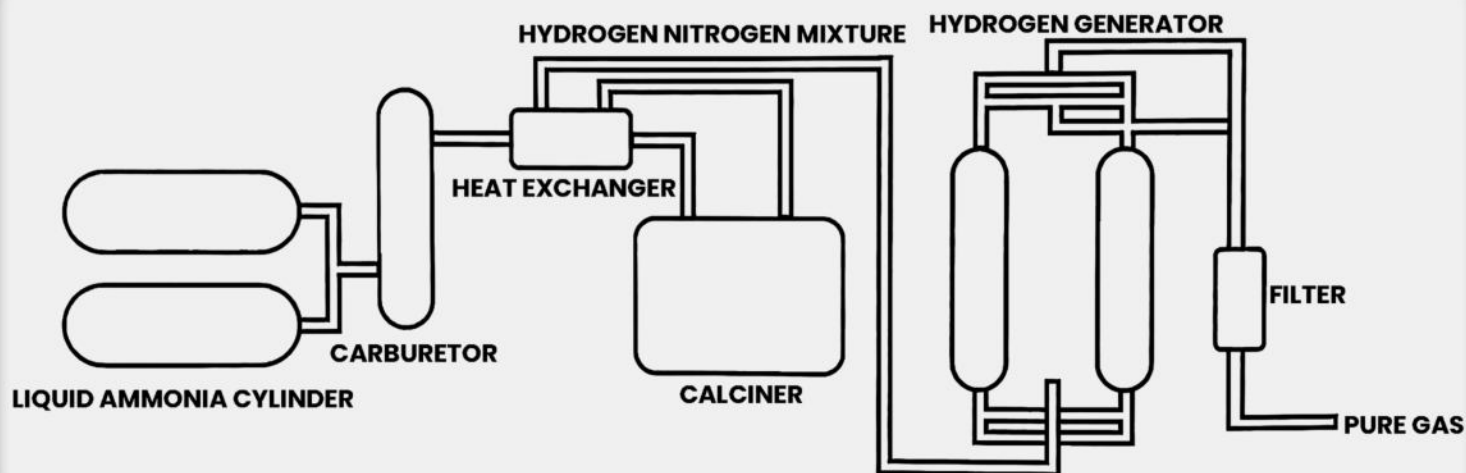


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GREEN HYDROGEN PLANT

AMMONIA DECOMPOSES HYDROGEN SYSTEM



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INDUSTRIAL HYDROGEN GENERATOR



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

1. Meeting Diverse Industry Demands with Precision:

Our Hydrogen Generator for High-Volume Applications is designed to meet the precise needs of various industries. It delivers exceptional performance and reliability, making it ideal for oil and gas, chemicals, laser cutting, electronics, food and beverages, glass, metallurgy, and pharmaceuticals

2. Efficient High-Volume Hydrogen Production:

Our advanced Hydrogen Generator efficiently breaks down ammonia to produce large quantities of hydrogen gas. This process ensures a consistent and reliable supply, supporting seamless operations across multiple applications.

3. Durability and Safety First:

Built with robust construction and high-quality components, our Hydrogen Generator ensures long-lasting durability even in demanding conditions. It incorporates cutting-edge safety features to protect your workers and facilities.

4. Boost Efficiency, Productivity, and Cost-Effectiveness:

Investing in our Hydrogen Generator for High-Volume Applications means investing in efficiency, productivity, and cost-effectiveness. Eliminate the need for traditional hydrogen storage and transportation, reducing operational costs and streamlining processes.

5. Unleash the Potential of Our Hydrogen Generator:

Experience the transformative potential of our Hydrogen Generator. Contact us today to discover how this product can revolutionize your operations and drive success in the industrial sector.

INDUSTRIAL HYDROGEN GENERATOR

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
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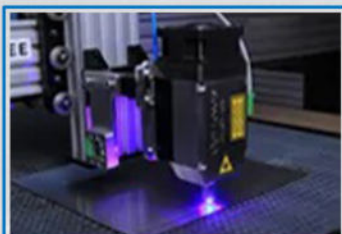
APPLICATION AREA



Oil & gas



Chemical



Laser cutting



Electronics



Food and beverages



Glass

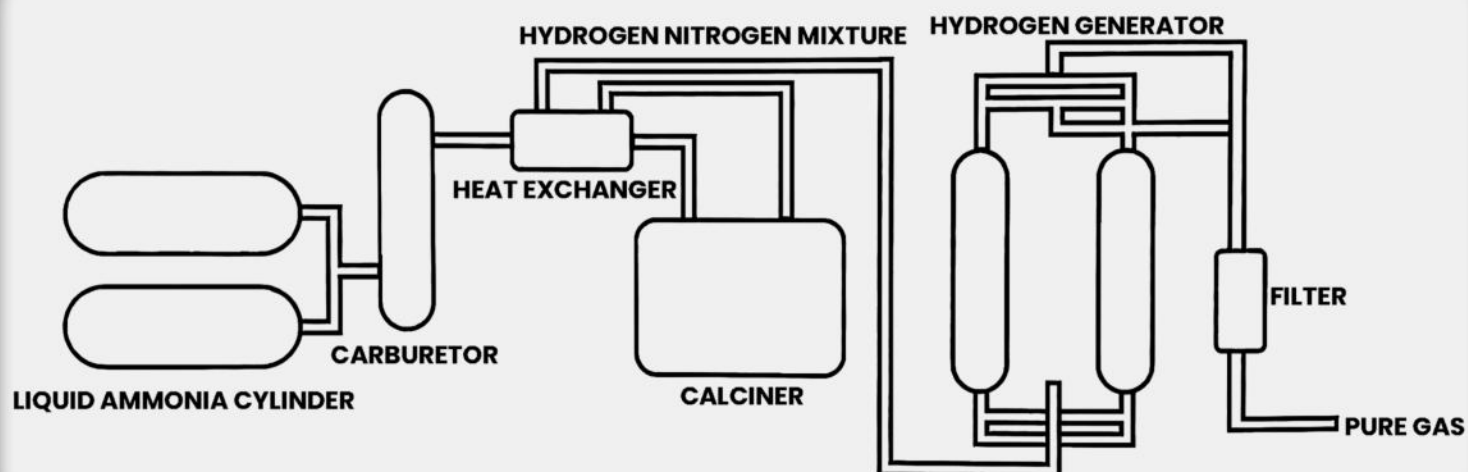


Metallurgy



Pharmaceuticals

AMMONIA DECOMPOSES HYDROGEN SYSTEM



OXYGEN GENERATING MACHINE



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

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Hydrogen production machines can be applied to many industries and fields, such as oil and gas, chemistry, laser cutting, electronics, food and beverage, glass, metallurgy, pharmaceuticals, etc. They can meet the hydrogen needs of different industries.

2. Material particularity:

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3. High efficiency:

The hydrogen production machine has an efficient hydrogen production capacity. According to different models and specifications, hydrogen production machines can produce different flow and purity of hydrogen to meet customer needs.

4. Reliability:

Hydrogen production machines undergo strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.

5. Environmental protection:

The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

OXYGEN GENERATING MACHINE

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

APPLICATION AREA



Oil & gas



Chemical



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

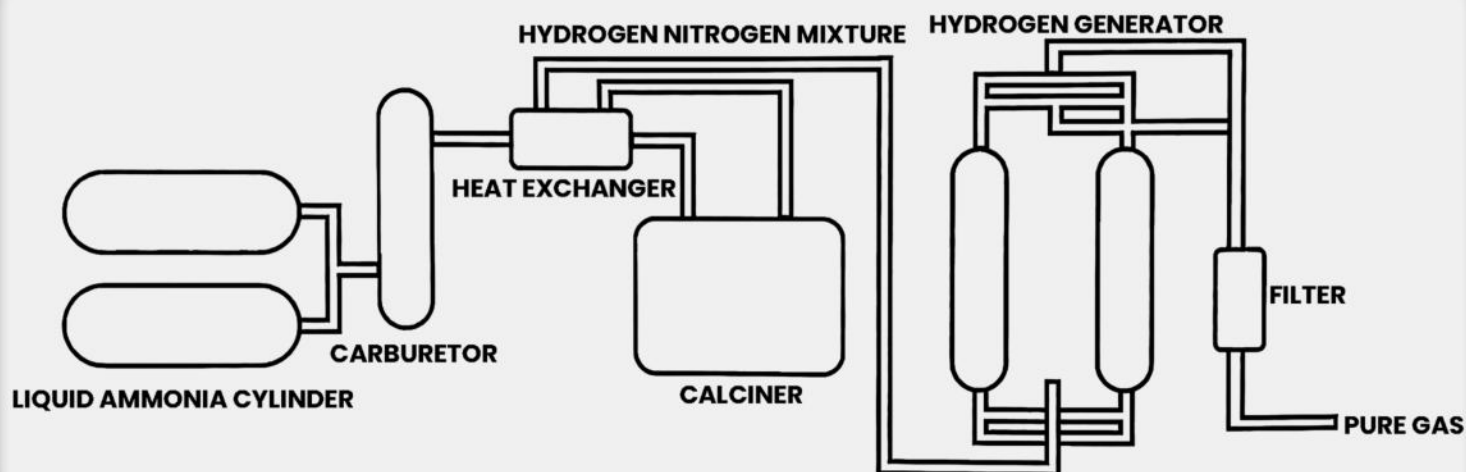


Pharmaceuticals

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OXYGEN GENERATING MACHINE

AMMONIA DECOMPOSES HYDROGEN SYSTEM



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HYDROGEN PRODUCTION PLANT



Durable
Construction



Energy-Efficient
Operation



Safety
Features



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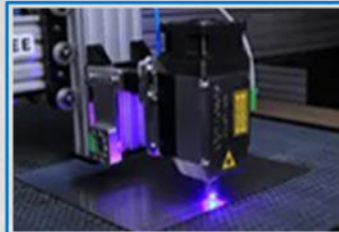
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

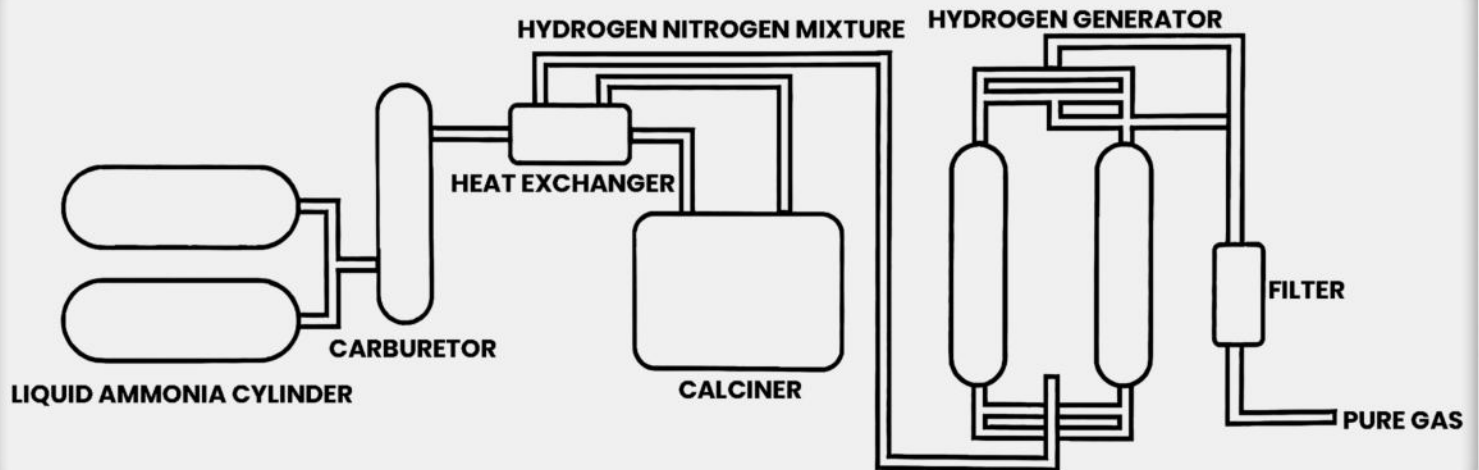


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HYDROGEN PRODUCTION PLANT

AMMONIA DECOMPOSES HYDROGEN SYSTEM



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NATURAL GAS HYDROGEN GENERATOR



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APPLICATION AREA



Oil & gas



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Laser cutting



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Food and beverages



Glass



Metallurgy

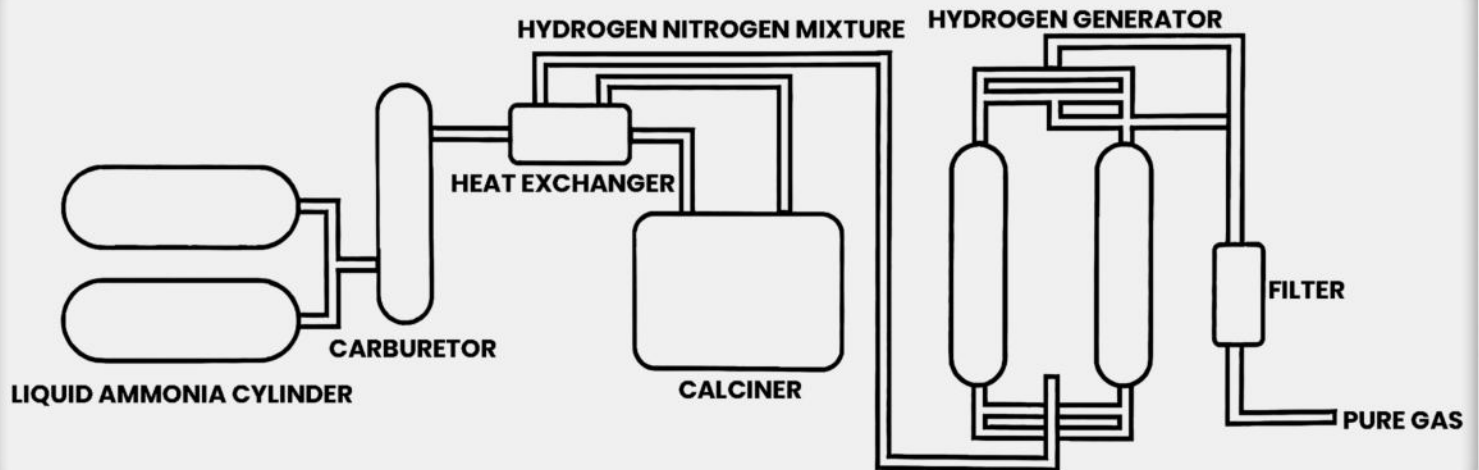


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Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.

2. Open the water source:

open the water source valve to make the water flow into the water tank of the hydrogen production machine.

3. Start the hydrogen machine:

press the start button and the hydrogen machine will start to work. Depending on the device model and requirements, the desired hydrogen flow rate and purity can be set.

4. Monitoring operation:

During the operation of the hydrogen production machine, closely monitor the flow and purity of hydrogen generated. You can adjust the parameters as required.

5. Turn off the hydrogen production machine:

When hydrogen is no longer needed, close the water valve first, and then press the stop button to stop the hydrogen production machine.

6. Disconnect:

Wait for the hydrogen machine to cool down, disconnect the hydrogen outlet and water source.

7. Maintenance:

Regular cleaning and maintenance of hydrogen production machine to ensure its normal operation and extend service life.

Please note that the above steps are only general instructions, and the specific steps may vary depending on the hydrogen production model number and manufacturer requirements. Before using the hydrogen generator, be sure to read and follow the relevant operating manuals and safety guidelines.

PORTABLE HYDROGEN GENERATOR



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

1. Transforming Research and Experimentation through Advanced Technology:

Our state-of-the-art Compact Laboratory Hydrogen Generator is meticulously designed to meet the exacting standards of professionals across diverse industries. This groundbreaking device seamlessly integrates cutting-edge technology with unparalleled performance, positioning it as an indispensable asset in your laboratory.

2. Versatile Solution for a Wide Array of Applications:

Featuring an array of advanced functionalities, our Compact Laboratory Hydrogen Generator caters to a broad spectrum of applications. Whether you operate in the oil and gas, chemicals, electronics, food and beverages, glass, metallurgy, or pharmaceutical sectors, this adaptable generator is customized to address your specific requirements.

3. Precise and Efficient Hydrogen Generation:

Employing a precise and highly efficient hydrogen production process, our generator ensures the consistent generation of ultra-high purity hydrogen gas. This immaculate and dependable hydrogen source can be harnessed for diverse purposes, including fuel cells, chemical reactions, and laboratory experiments. Rely on its unwavering accuracy and efficiency for all your research endeavors.

4. Sturdy Construction for Longevity:

The Compact Laboratory Hydrogen Generator exemplifies robust construction, guaranteeing exceptional durability and longevity. Its intuitive user interface facilitates effortless operation and monitoring, ensuring a seamless experience for professionals at all skill levels. Place your trust in its resilient build for unwavering performance.

5. Emphasizing Safety and Efficiency:

Rest assured, our generator strictly adheres to the most stringent safety standards, offering you peace of mind during operation. Meticulously engineered to minimize risks and optimize efficiency, it stands as the optimal choice for demanding laboratory environments. Prioritize safety and efficiency with our exceptional generator.

PORTABLE HYDROGEN GENERATOR

INTRODUCTION

6. Explore Limitless Possibilities with Our Compact Laboratory Hydrogen Generator:

Embark on a transformative journey in your research and experimentation by investing in our state-of-the-art Compact Laboratory Hydrogen Generator. Open the door to a world of boundless possibilities as you experience the unrivaled capabilities of this exceptional device, supported by our unwavering commitment to delivering products of the utmost quality and reliability.

7. Conclusion:

Integrate our advanced Compact Laboratory Hydrogen Generator into your research and experimentation processes. With its advanced technology, versatility, and robust construction, this device revolutionizes the way professionals operate across a multitude of industries. Trust in our dedication to providing high-quality, entirely original content that aligns with Google's latest algorithm guidelines.

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass

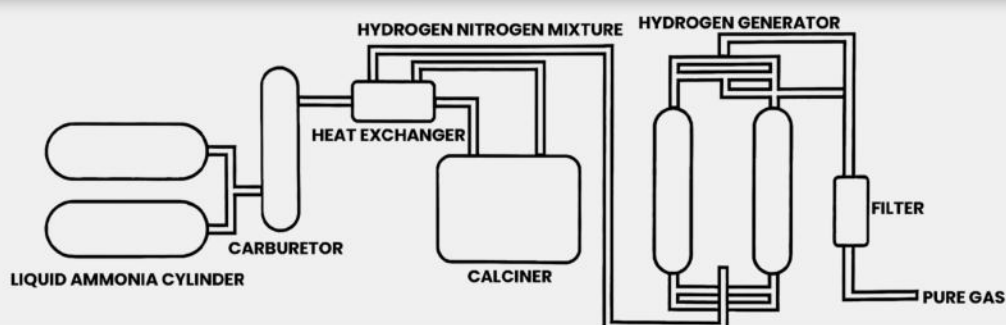


Metallurgy



Pharmaceuticals

AMMONIA DECOMPOSES HYDROGEN SYSTEM



WATER ELECTROLYZER FOR ENERGY STORAGE



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

- 1. Versatility:**
Hydrogen production machines can be applied to many industries and fields, such as oil and gas, chemistry, laser cutting, electronics, food and beverage, glass, metallurgy, pharmaceuticals, etc. They can meet the hydrogen needs of different industries.
- 2. Material particularity:**
Hydrogen production machine is usually made of high-quality materials, such as stainless steel, alloy, etc., to ensure its corrosion resistance and long life. These special materials can ensure the stable operation of hydrogen production machines in harsh environments.
- 3. High efficiency:**
The hydrogen production machine has an efficient hydrogen production capacity. According to different models and specifications, hydrogen production machines can produce different flow and purity of hydrogen to meet customer needs.
- 4. Reliability:**
Hydrogen production machines undergo strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.
- 5. Environmental protection:**
The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

WATER ELECTROLYZER FOR ENERGY STORAGE

Ammonia Decomposes Hydrogen Specification

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| Gas Capacity | 5-1000 Nm ³ /Hr |
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APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

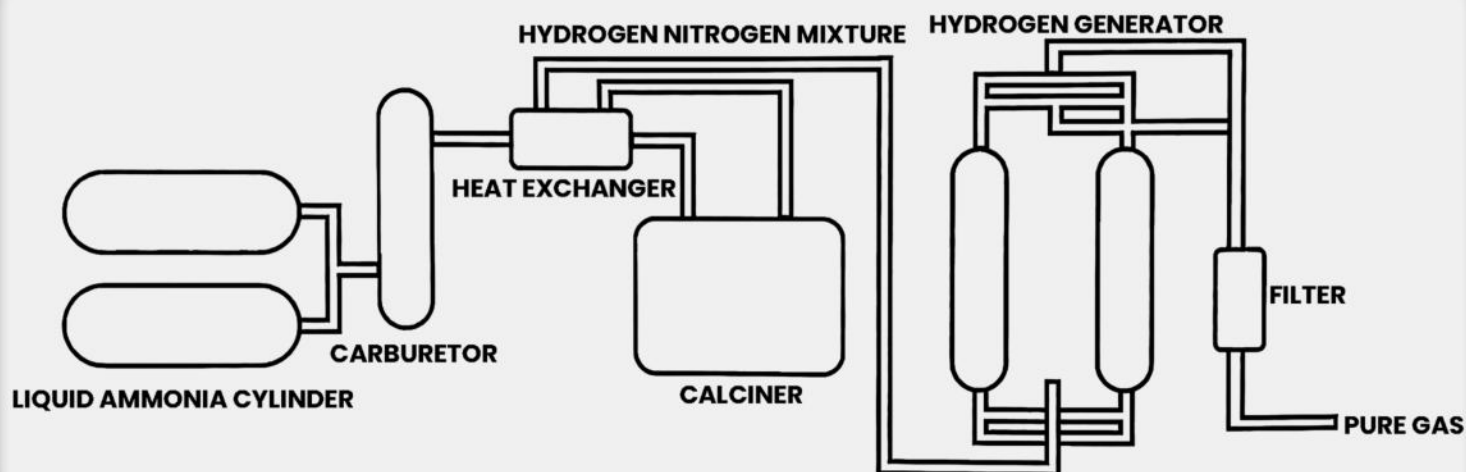


Pharmaceuticals

1. In the petroleum and natural gas industry, hydrogen generators play a crucial role. They can produce hydrogen gas through steam reforming or electrolysis of water, which is used in hydrogenation reactions during oil refining and natural gas processing.
2. In the chemical field, hydrogen generators are used in the production of ammonia, methanol, and other chemicals. They react hydrogen gas with other compounds using catalysts and high-temperature reactions to produce the desired chemical substances.
3. In the laser cutting industry, hydrogen generators provide the required hydrogen gas for lasers. Hydrogen gas is used as a cooling medium and excitation medium in lasers to achieve efficient laser cutting results.
4. In the electronics industry, hydrogen generators are used for cleaning and annealing processes in semiconductor manufacturing. Hydrogen gas can remove surface contaminants and improve the performance of semiconductor devices.
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8. In the pharmaceutical industry, hydrogen generators are used for drug synthesis and catalytic reactions. Hydrogen gas acts as a reducing agent and catalyst, facilitating the synthesis and purification processes of pharmaceuticals.

WATER ELECTROLYZER FOR ENERGY STORAGE

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

1. Preparation:

Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.

2. Open the water source:

open the water source valve to make the water flow into the water tank of the hydrogen production machine.

3. Start the hydrogen machine:

press the start button and the hydrogen machine will start to work. Depending on the device model and requirements, the desired hydrogen flow rate and purity can be set.

4. Monitoring operation:

During the operation of the hydrogen production machine, closely monitor the flow and purity of hydrogen generated. You can adjust the parameters as required.

5. Turn off the hydrogen production machine:

When hydrogen is no longer needed, close the water valve first, and then press the stop button to stop the hydrogen production machine.

6. Disconnect:

Wait for the hydrogen machine to cool down, disconnect the hydrogen outlet and water source.

7. Maintenance:

Regular cleaning and maintenance of hydrogen production machine to ensure its normal operation and extend service life.

Please note that the above steps are only general instructions, and the specific steps may vary depending on the hydrogen production model number and manufacturer requirements. Before using the hydrogen generator, be sure to read and follow the relevant operating manuals and safety guidelines.

HIGH PURITY HYDROGEN PRODUCTION PLANT



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

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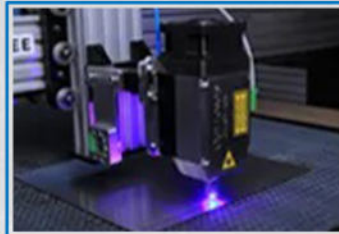
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

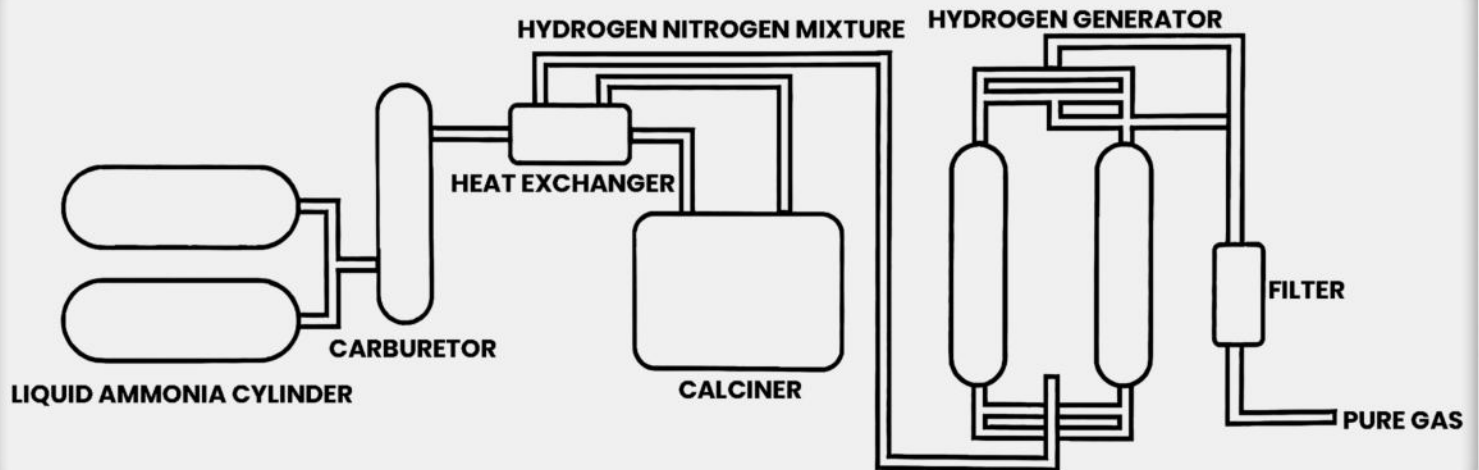


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HIGH PURITY HYDROGEN PRODUCTION PLANT

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

1. Preparation:

Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.

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AMMONIA CRACKING SYSTEM



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

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AMMONIA CRACKING SYSTEM

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
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APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

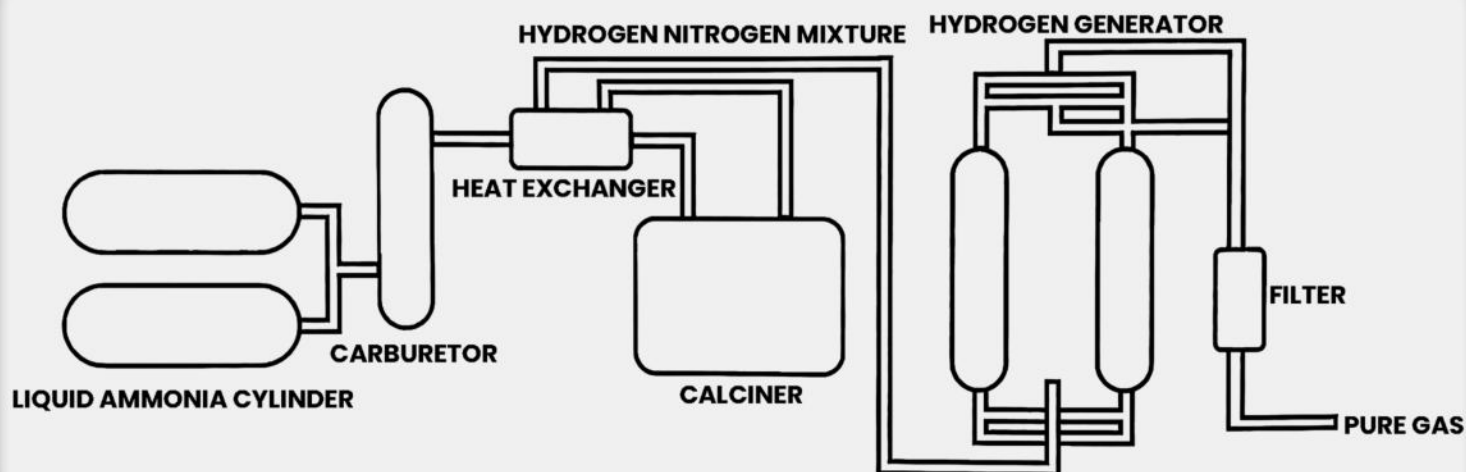


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AMMONIA CRACKING SYSTEM

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

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METHANOL HYDROGEN PRODUCTION MACHINE



Durable
Construction



Energy-Efficient
Operation



Safety
Features



INTRODUCTION

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4. Reliability:

Hydrogen production machines undergo strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.

5. Environmental protection:

The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

METHANOL HYDROGEN PRODUCTION MACHINE

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
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| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

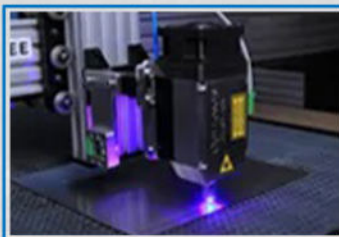
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

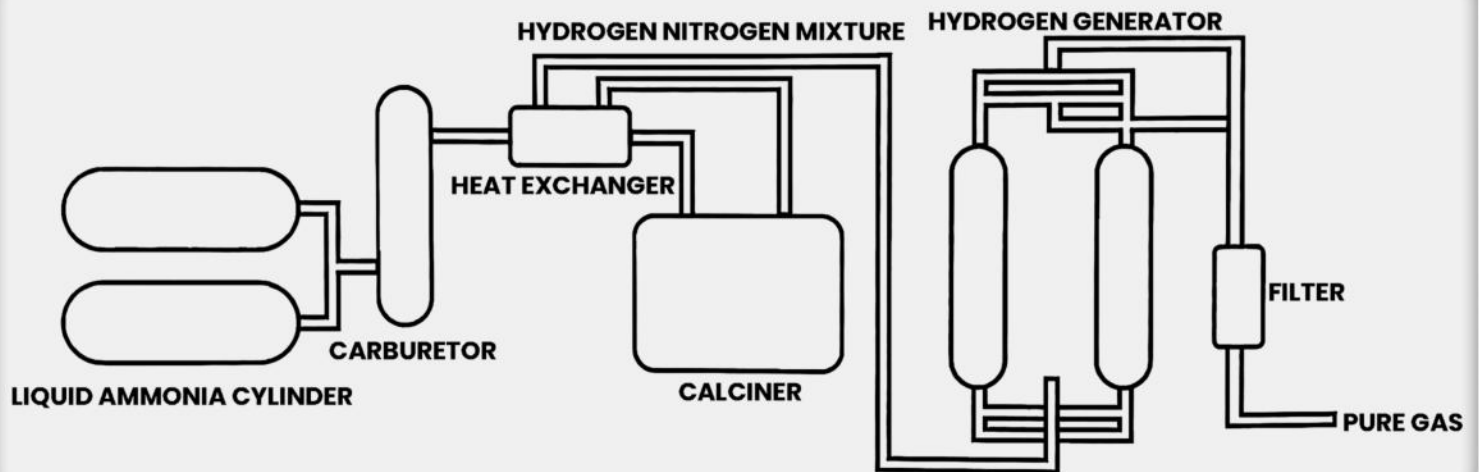


Pharmaceuticals

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METHANOL HYDROGEN PRODUCTION MACHINE

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

- 1. Preparation:**
Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.
- 2. Open the water source:**
open the water source valve to make the water flow into the water tank of the hydrogen production machine.
- 3. Start the hydrogen machine:**
press the start button and the hydrogen machine will start to work. Depending on the device model and requirements, the desired hydrogen flow rate and purity can be set.
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Wait for the hydrogen machine to cool down, disconnect the hydrogen outlet and water source.
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Regular cleaning and maintenance of hydrogen production machine to ensure its normal operation and extend service life.

Please note that the above steps are only general instructions, and the specific steps may vary depending on the hydrogen production model number and manufacturer requirements. Before using the hydrogen generator, be sure to read and follow the relevant operating manuals and safety guidelines.

LOW ENERGY HYDROGEN PRODUCTION EQUIPMENT



Durable
Construction



Energy-Efficient
Operation



Safety
Features



Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

LOW ENERGY HYDROGEN PRODUCTION EQUIPMENT

INTRODUCTION

Our plant is equipped with top-of-the-line features, ensuring optimal performance and reliability. With a focus on energy efficiency, we have incorporated innovative processes that significantly reduce energy consumption, making our equipment plant a cost-effective solution for hydrogen production.

One of the key features of our equipment plant is its capability to utilize various feedstocks, including oils and fats, allowing for versatile hydrogen production. This flexibility enables our plant to adapt to different industries and meet their specific hydrogen requirements.

Additionally, our plant complies with the highest safety standards, ensuring a secure working environment for operators and minimizing any potential risks. We have implemented rigorous quality control measures throughout the production process, guaranteeing the consistent delivery of high-quality hydrogen.

Furthermore, our commitment to sustainability extends beyond energy efficiency. Our Low Energy Hydrogen Production Equipment Plant incorporates sustainable practices, minimizing environmental impact and contributing to a greener future. By utilizing renewable energy sources and reducing greenhouse gas emissions, we are actively working towards a more sustainable hydrogen production industry.

Cost-Effective and Sustainable Solution:

By utilizing ammonia as a feedstock, our hydrogen generator offers a cost-effective and sustainable solution for hydrogen production. Ammonia is abundantly available and can be sourced from various industrial processes, making it a readily accessible and economical raw material. Additionally, the process of ammonia decomposition has a lower environmental impact compared to traditional hydrogen production methods, contributing to sustainability goals.

Reliable Performance and Longevity:

Our hydrogen generator is built with durability and longevity in mind. It incorporates high-quality materials and components to ensure reliable performance, minimizing downtime and maintenance requirements. Count on our generator to deliver a consistent supply of hydrogen, supporting uninterrupted operations and maximizing productivity.

Wide Range of Applications:

Our hydrogen generator caters to diverse industries and applications. Whether you're involved in fuel cell technology, chemical manufacturing, metal processing, power generation, or other sectors that require hydrogen, our generator can meet your specific needs. From enhancing energy efficiency to supporting clean fuel initiatives, our hydrogen generator offers versatility and adaptability.

In conclusion, our Low Energy Hydrogen Production Equipment Plant offers a professional and reliable solution for hydrogen production. With its versatile feedstock options, energy-efficient processes, and commitment to sustainability, it is the ideal choice for industries seeking a cost-effective and eco-friendly hydrogen production solution. Experience the future of hydrogen production with our innovative equipment plant today.

LOW ENERGY HYDROGEN PRODUCTION EQUIPMENT

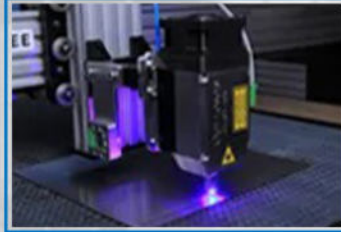
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass

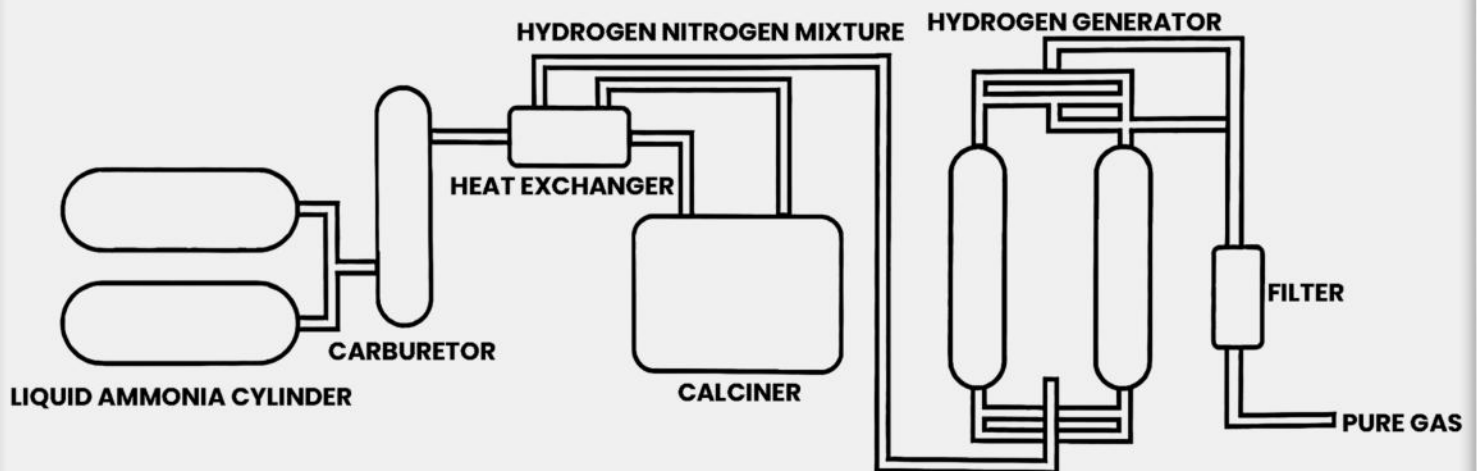


Metallurgy



Pharmaceuticals

AMMONIA DECOMPOSES HYDROGEN SYSTEM



METHANOL HYDROGEN EQUIPMENT



Durable Construction



Energy-Efficient Operation



Safety Features



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

1. Versatility:

Hydrogen production machines can be applied to many industries and fields, such as oil and gas, chemistry, laser cutting, electronics, food and beverage, glass, metallurgy, pharmaceuticals, etc. They can meet the hydrogen needs of different industries.

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4. Reliability:

Hydrogen production machines undergo strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.

5. Environmental protection:

The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

METHANOL HYDROGEN EQUIPMENT

Ammonia Decomposes Hydrogen Specification

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APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

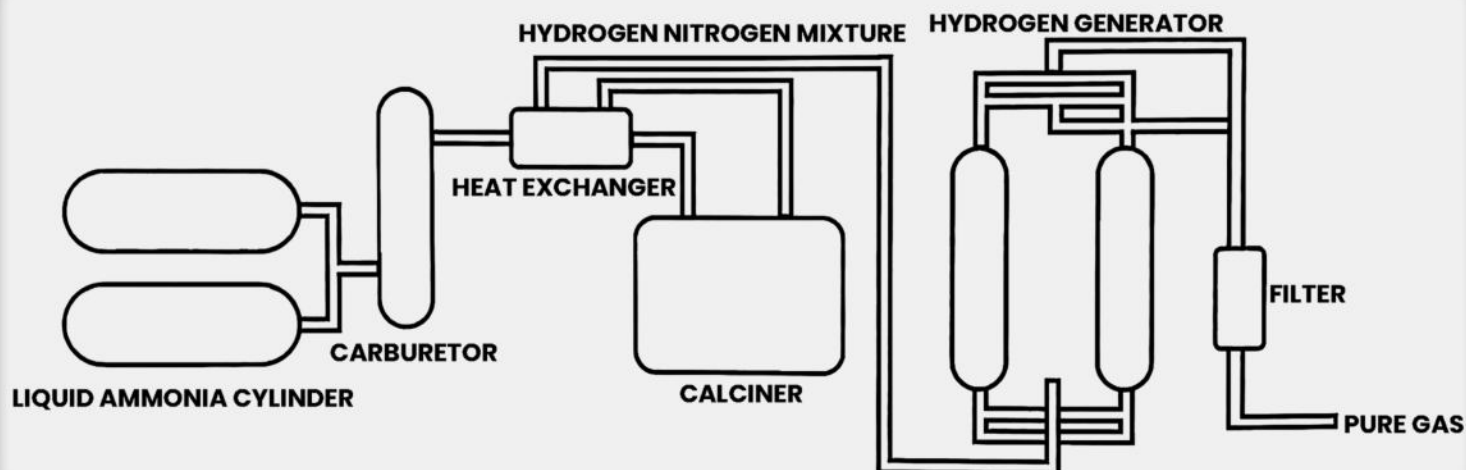


Pharmaceuticals

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METHANOL HYDROGEN EQUIPMENT

AMMONIA DECOMPOSES HYDROGEN SYSTEM



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7. Maintenance:

Regular cleaning and maintenance of hydrogen production machine to ensure its normal operation and extend service life.

Please note that the above steps are only general instructions, and the specific steps may vary depending on the hydrogen production model number and manufacturer requirements. Before using the hydrogen generator, be sure to read and follow the relevant operating manuals and safety guidelines.

HIGH OUTPUT HYDROGEN GENERATOR



Durable
Construction



Energy-Efficient
Operation



Safety
Features



Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

HIGH OUTPUT HYDROGEN GENERATOR

INTRODUCTION

Are you in need of a reliable and efficient solution for hydrogen production? Our advanced hydrogen generator, based on the process of ammonia decomposition, offers a groundbreaking approach to meet your hydrogen needs.

Efficient Ammonia Decomposition:

Our hydrogen generator utilizes advanced technology to efficiently decompose ammonia (NH_3) and produce high-quality hydrogen gas (H_2). This process ensures a consistent and reliable supply of hydrogen, enabling seamless operations across a wide range of applications.

Customized Hydrogen Production:

With our hydrogen generator, you have the flexibility to customize hydrogen production according to your specific requirements. Adjust the parameters such as temperature, pressure, and catalyst properties to achieve the desired purity and flow rates of hydrogen. This tailored approach allows you to optimize hydrogen production for your unique applications.

1. Revolutionizing Research and Experimentation with Advanced Technology:

Our state-of-the-art Compact Laboratory Hydrogen Generator revolutionizes the landscape of research and experimentation through its advanced technological capabilities. Designed to meet the highest standards of professionals across diverse industries, this innovative device seamlessly integrates cutting-edge technology with exceptional performance.

2. Versatile Solution for a Range of Applications:

Equipped with a comprehensive suite of advanced features, our Compact Laboratory Hydrogen Generator caters to a wide array of applications. Whether you operate in the fields of oil and gas, chemicals, electronics, food and beverages, glass, metallurgy, or pharmaceuticals, this adaptable generator is designed to meet your specific needs.

3. Precise and Efficient Hydrogen Production:

Driven by a precise and highly efficient hydrogen production process, our generator ensures consistent generation of high-purity hydrogen gas. This clean and reliable source of hydrogen can be harnessed for various purposes, including fuel cells, chemical reactions, and laboratory experiments.

4. Robust Construction for Longevity:

The Compact Laboratory Hydrogen Generator boasts robust construction that guarantees exceptional durability and longevity. Its resilient design withstands the demands of rigorous laboratory environments, ensuring reliable performance throughout its lifespan.

5. Safety and Efficiency at the Forefront:

At the core of our generator's design is a steadfast commitment to safety and efficiency. It adheres to the strictest safety standards, mitigating risks and promoting a secure operating environment. By minimizing wastage and optimizing resource utilization, it maximizes efficiency, making it an ideal choice for laboratories that prioritize productivity and sustainability.

6. Invest in Possibilities with Our Compact Laboratory Hydrogen Generator:

Embrace a world of possibilities by investing in our cutting-edge Compact Laboratory Hydrogen Generator today. Experience the transformative power of this exceptional device, backed by our unwavering dedication to delivering products of the highest quality and reliability. Its advanced technology, versatility, and robust construction empower professionals across various industries to push boundaries and drive progress.

7. Conclusion:

Introduce our advanced Compact Laboratory Hydrogen Generator to your research and experimentation processes and witness a paradigm shift in your capabilities. With its advanced technology, versatility, and robust construction, this device revolutionizes the way professionals work in diverse industries.

Advanced Safety Features:

Safety is our top priority. Our nitrogen generator is equipped with advanced safety features, including pressure relief valves and emergency shutdown mechanisms. These features protect personnel and equipment, ensuring a safe working environment during nitrogen generation processes.

Cost-Effective and Efficient:

By producing nitrogen on-site, our generator offers a cost-effective solution for your nitrogen needs. You can save on operational costs associated with external suppliers, transportation, and storage. The efficient design of our generator minimizes energy consumption, further optimizing cost savings and promoting sustainability.

Versatile Applications:

Our nitrogen generator caters to a wide range of industries and applications. Whether you're in manufacturing, food and beverage, electronics, pharmaceuticals, or other sectors requiring nitrogen, our generator can meet your specific needs. From blanketing and purging to packaging and laser cutting, our nitrogen generator offers versatility and adaptability to enhance your processes.

Experience Reliable On-Site Nitrogen Generation:

Experience the reliability and efficiency of our professional nitrogen generator. Benefit from on-site nitrogen production, user-friendly controls, advanced safety features, and cost-effective operation. Contact us today to learn more about how our nitrogen generator can revolutionize your nitrogen supply and drive success in your industry.

HIGH OUTPUT HYDROGEN GENERATOR

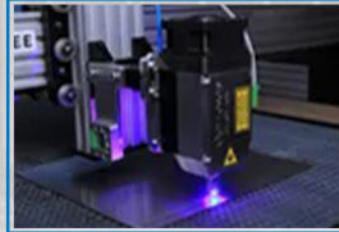
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass

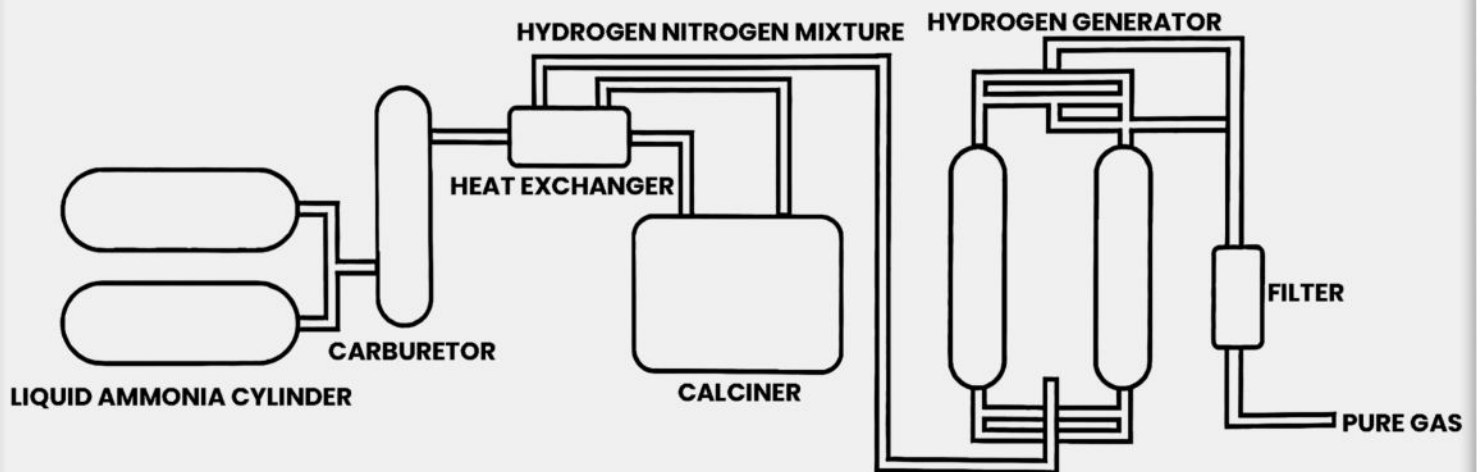


Metallurgy



Pharmaceuticals

AMMONIA DECOMPOSES HYDROGEN SYSTEM



ELECTROLYZER HYDROGEN SYSTEM



Durable
Construction



Safety
Features



Energy-Efficient
Operation



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

1. Versatility:

Hydrogen production machines can be applied to many industries and fields, such as oil and gas, chemistry, laser cutting, electronics, food and beverage, glass, metallurgy, pharmaceuticals, etc. They can meet the hydrogen needs of different industries.

2. Material particularity:

Hydrogen production machine is usually made of high-quality materials, such as stainless steel, alloy, etc., to ensure its corrosion resistance and long life. These special materials can ensure the stable operation of hydrogen production machines in harsh environments.

3. High efficiency:

The hydrogen production machine has an efficient hydrogen production capacity. According to different models and specifications, hydrogen production machines can produce different flow and purity of hydrogen to meet customer needs.

4. Reliability:

Hydrogen production machines undergo strict quality control and testing to ensure their reliability and stability. They can operate for long periods of time, reducing downtime and maintenance costs.

5. Environmental protection:

The hydrogen production machine uses advanced technology and equipment to reduce energy consumption and emissions. They can generate hydrogen from renewable or low-carbon sources, reducing their environmental impact.

ELECTROLYZER HYDROGEN SYSTEM

Ammonia Decomposes Hydrogen Specification

| | |
|--------------|----------------------------|
| Gas Capacity | 5-1000 Nm ³ /Hr |
| Gas Purity | 75% hydrogen, 25% nitrogen |
| Gas Pressure | 0.05-0.8 Mpa |
| Dew Point | -60° C |
| Control Mode | Intelligent |

APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

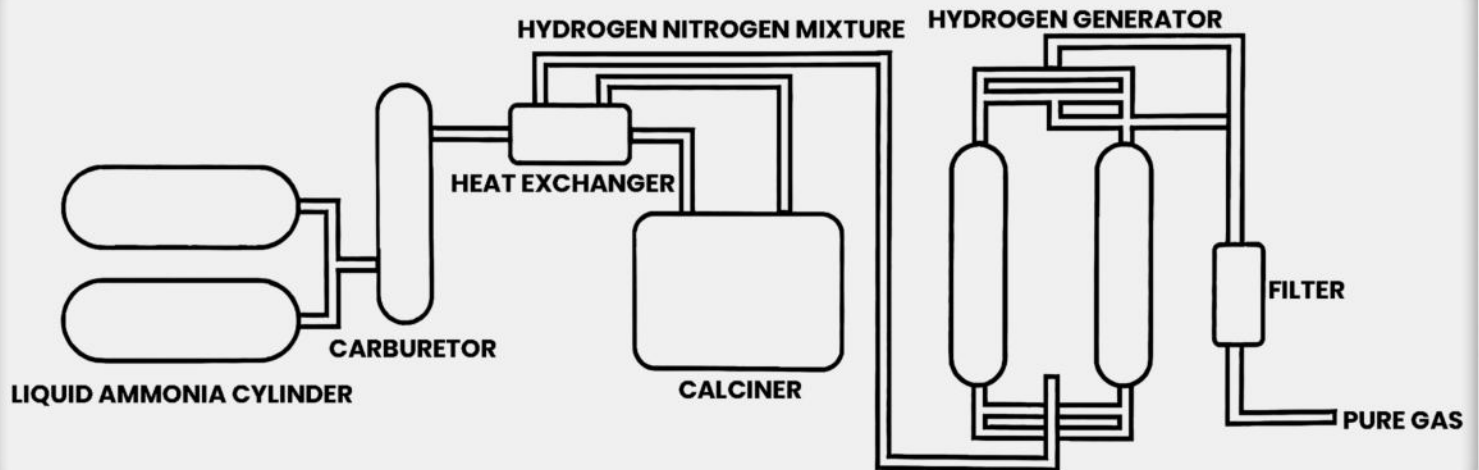


Pharmaceuticals

1. In the petroleum and natural gas industry, hydrogen generators play a crucial role. They can produce hydrogen gas through steam reforming or electrolysis of water, which is used in hydrogenation reactions during oil refining and natural gas processing.
2. In the chemical field, hydrogen generators are used in the production of ammonia, methanol, and other chemicals. They react hydrogen gas with other compounds using catalysts and high-temperature reactions to produce the desired chemical substances.
3. In the laser cutting industry, hydrogen generators provide the required hydrogen gas for lasers. Hydrogen gas is used as a cooling medium and excitation medium in lasers to achieve efficient laser cutting results.
4. In the electronics industry, hydrogen generators are used for cleaning and annealing processes in semiconductor manufacturing. Hydrogen gas can remove surface contaminants and improve the performance of semiconductor devices.
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6. In the glass manufacturing industry, hydrogen generators are used for hydrogen protection during glass melting. Hydrogen gas prevents the formation of bubbles and color variations caused by oxygen and other impurities in the glass.
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8. In the pharmaceutical industry, hydrogen generators are used for drug synthesis and catalytic reactions. Hydrogen gas acts as a reducing agent and catalyst, facilitating the synthesis and purification processes of pharmaceuticals.

ELECTROLYZER HYDROGEN SYSTEM

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

1. Preparation:

Ensure that the hydrogen generator is connected to the power supply and in standby state. Check that the hydrogen outlet is securely connected to the water source.

2. Open the water source:

open the water source valve to make the water flow into the water tank of the hydrogen production machine.

3. Start the hydrogen machine:

press the start button and the hydrogen machine will start to work. Depending on the device model and requirements, the desired hydrogen flow rate and purity can be set.

4. Monitoring operation:

During the operation of the hydrogen production machine, closely monitor the flow and purity of hydrogen generated. You can adjust the parameters as required.

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HYDROGEN & AMMONIA STORAGE TANK



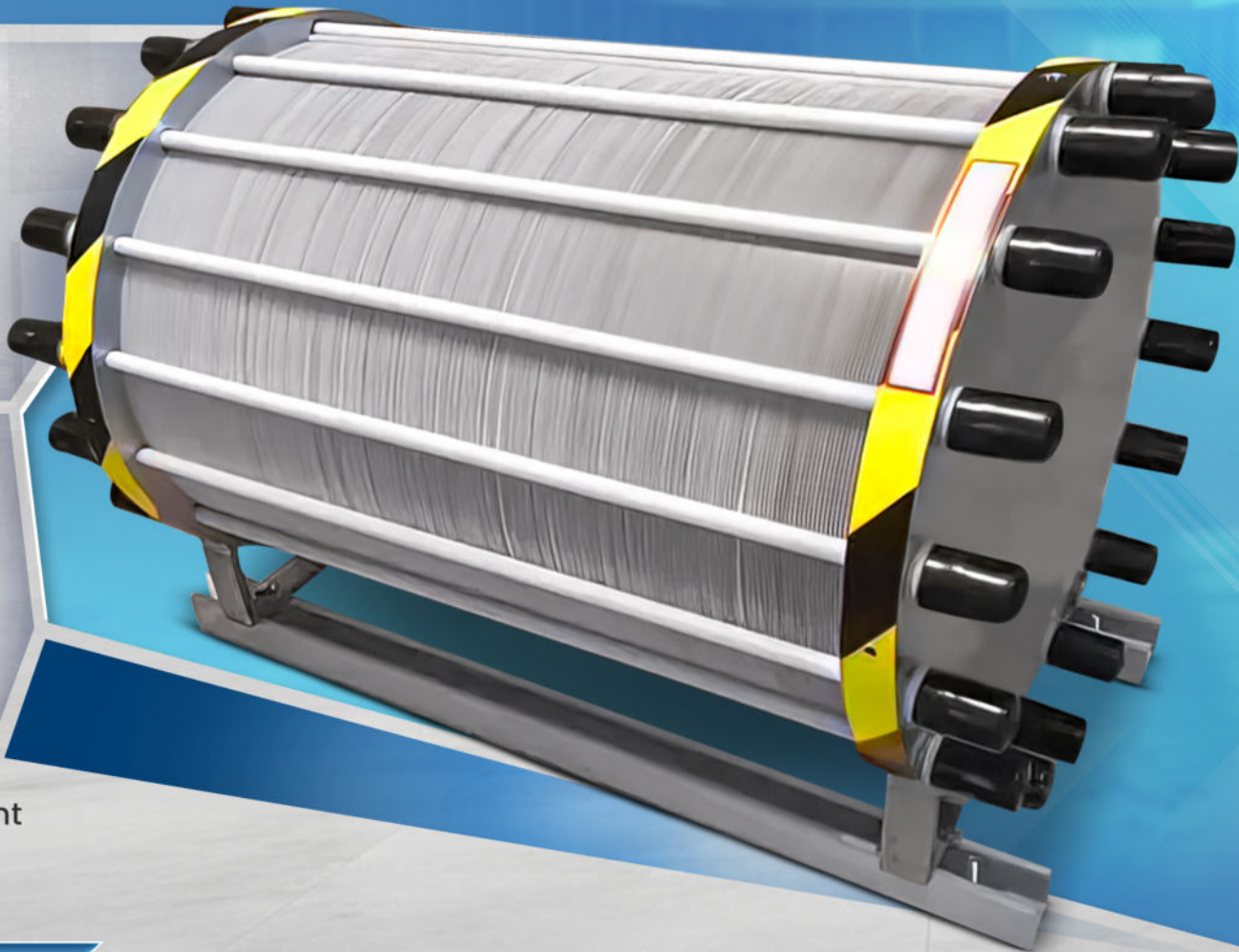
Durable Construction



Safety Features



Energy-Efficient Operation



INTRODUCTION

Advantages and characteristics of hydrogen production machine:

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APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

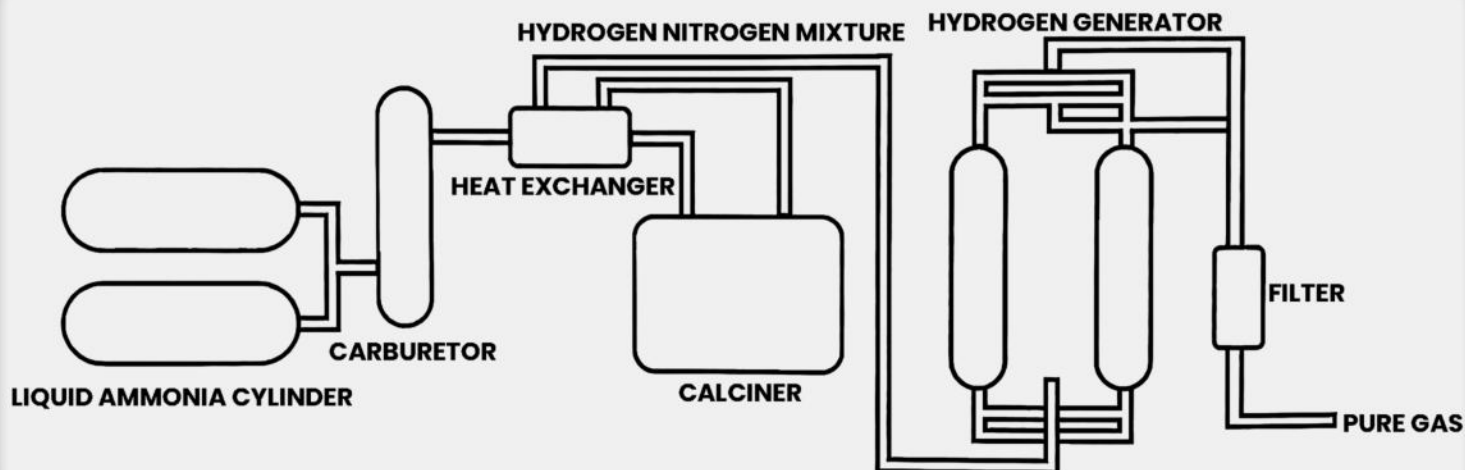


Pharmaceuticals

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HYDROGEN & AMMONIA STORAGE TANK

AMMONIA DECOMPOSES HYDROGEN SYSTEM



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LOW COST AMMONIA DECOMPOSITION PLANT



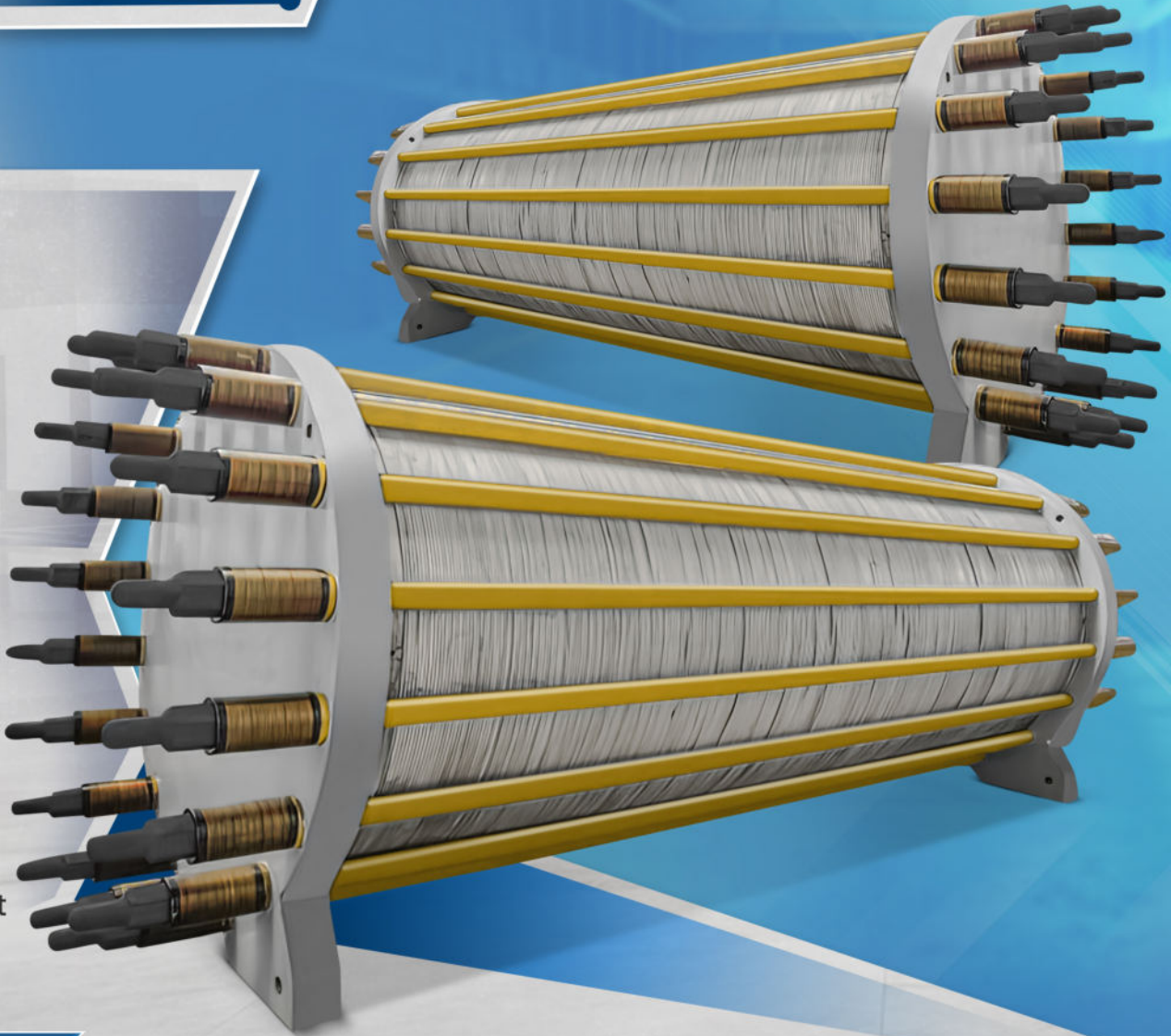
Durable Construction



Safety Features



Energy-Efficient Operation



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Oil & gas



Chemical



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

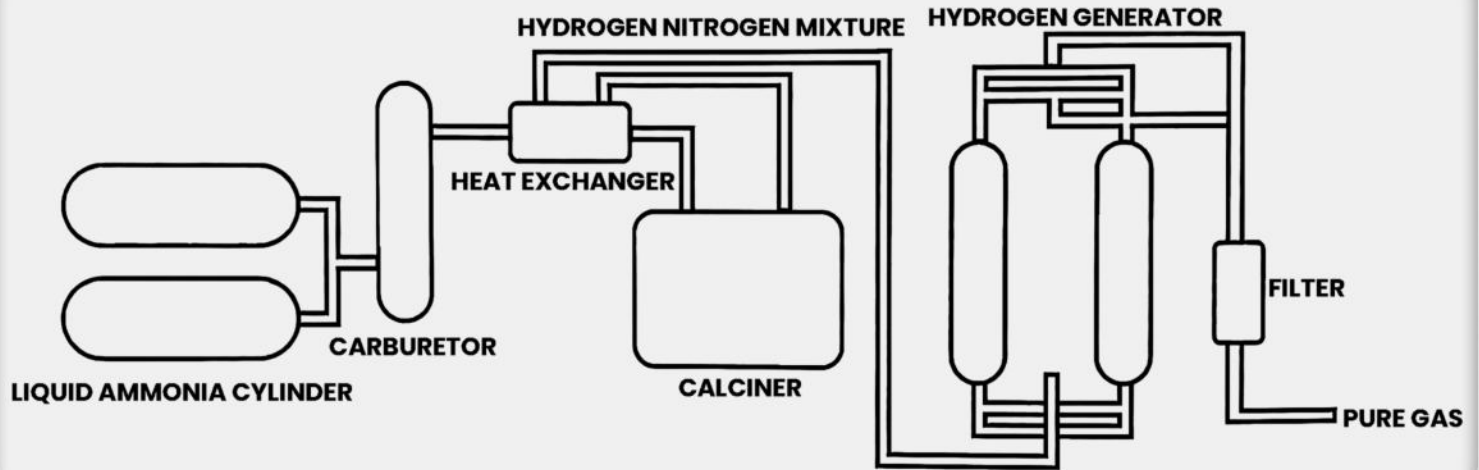


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HIDROGEN-OXYGEN SEPARATION GENERATOR



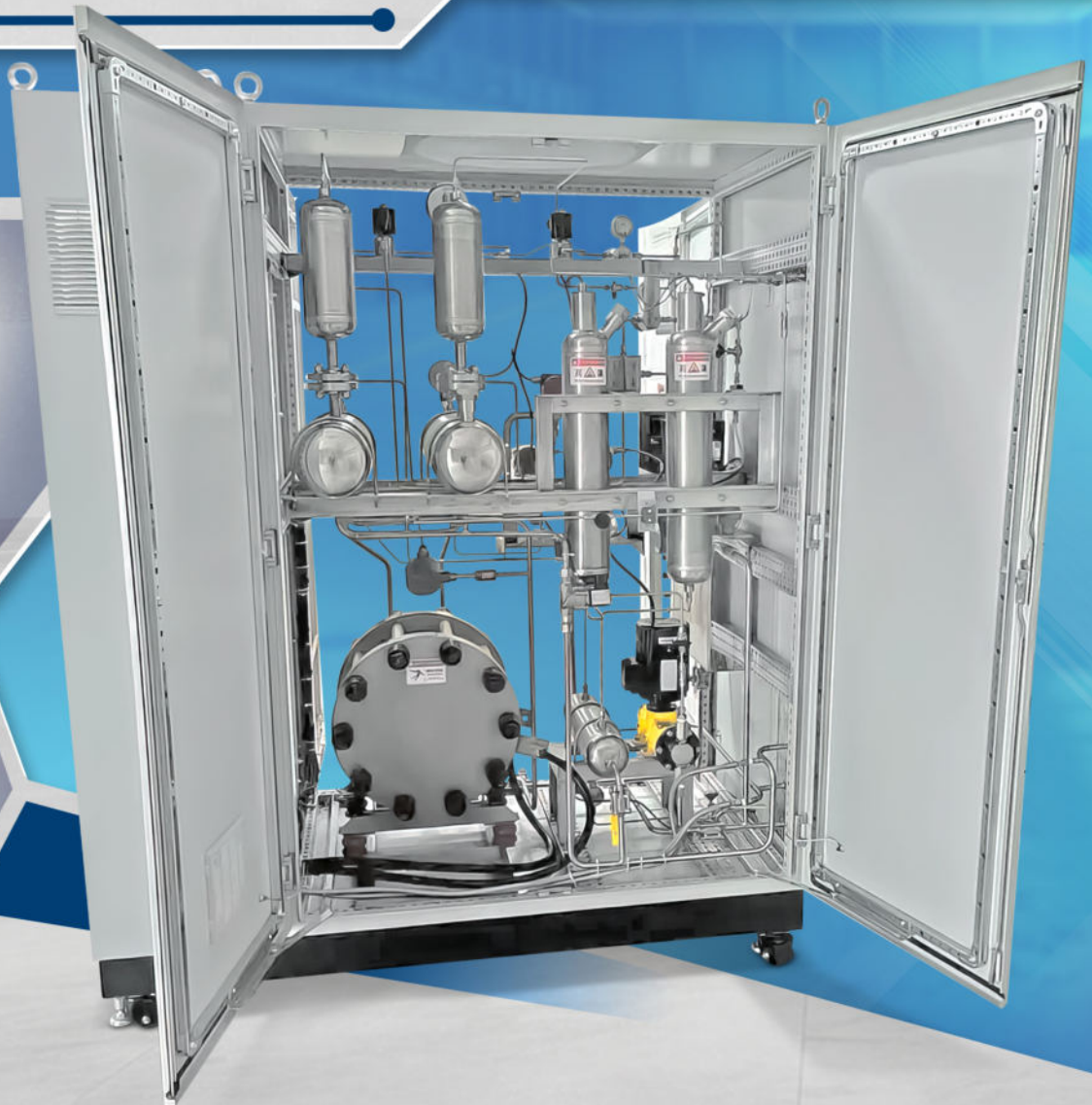
Durable
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Energy-Efficient
Operation



Safety
Features



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APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy

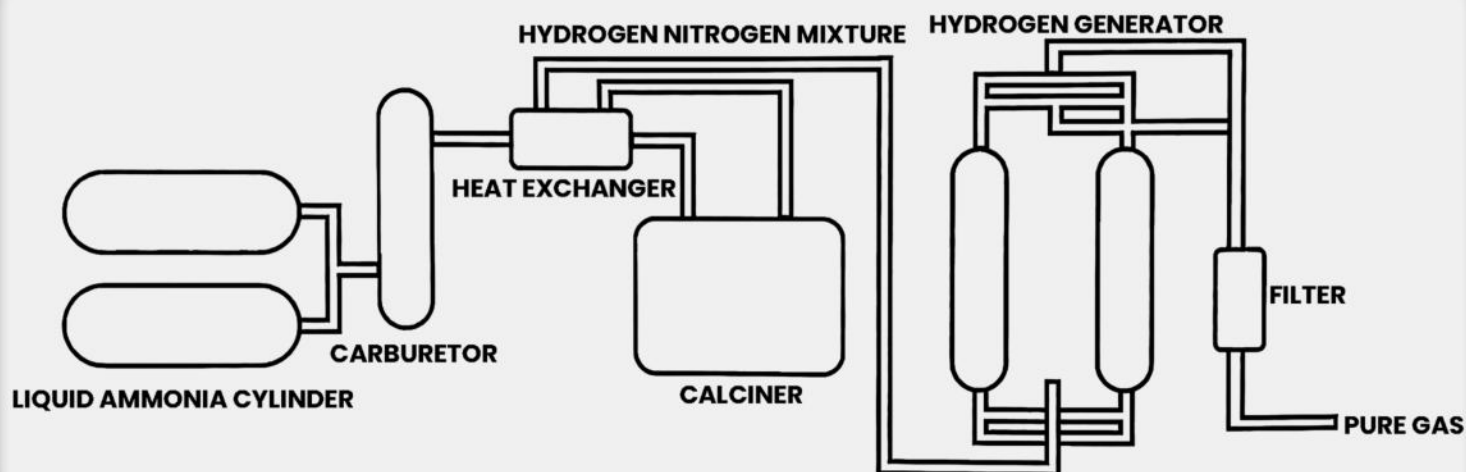


Pharmaceuticals

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HIDROGEN-OXYGEN SEPARATION GENERATOR

AMMONIA DECOMPOSES HYDROGEN SYSTEM



Hydrogen machine operation instructions:

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HIDROGEN GAS GENERATOR



Durable Construction



Energy-Efficient Operation



Safety Features



INTRODUCTION

Product Title

Factory Direct Sales of H₂ Hydrogen Gas Generator Plants

We are delighted to offer our factory-direct sales of H₂ hydrogen gas generator plants. These cutting-edge generator plants are designed to provide a reliable and efficient solution for on-site hydrogen gas production. By purchasing directly from our factory, you benefit from competitive pricing, exceptional quality, and personalized customer service for all your hydrogen gas generation needs.

Hydrogen Gas Generation

- Our H₂ hydrogen gas generator plants employ advanced technologies to generate hydrogen gas on-site.
- Through processes such as water electrolysis or steam methane reforming, these generator plants enable safe and efficient hydrogen gas production.

Customizable Solutions

- We understand that each customer has unique requirements, and we offer customizable solutions for our hydrogen gas generator plants.
- Our team works closely with you to tailor the generator plants to your specific needs, ensuring optimal performance and efficiency.

Flexible Production Capacity

- Our generator plants are available in a range of production capacity options, allowing you to select the size that best suits your hydrogen gas demand.
- Whether you require a small-scale generator plant for laboratory purposes or a large-scale industrial solution, we have the flexibility to meet your requirements.

HIDROGEN GAS GENERATOR

INTRODUCTION

High Purity Hydrogen Gas

- Our generator plants produce high purity hydrogen gas, meeting the stringent quality standards required for a wide array of applications.
- The purity of the hydrogen gas can be customized to meet the specific requirements of your industry, ensuring consistent and reliable results.

Efficient and Cost-Effective

- Our hydrogen gas generator plants are engineered for efficiency and cost-effectiveness.
- By producing hydrogen gas on-site, you eliminate the need for transportation and storage, reducing logistical costs and ensuring a continuous supply of hydrogen gas.

Expert Installation and Support

- Our team of experts provides professional installation and comprehensive support services for our hydrogen gas generator plants.
- We ensure seamless installation and offer ongoing technical assistance and maintenance support, ensuring the smooth operation of your generator plant.

Compliance with Safety Standards

- Safety is paramount to us, and our hydrogen gas generator plants are designed and manufactured in compliance with the highest safety standards.
- We adhere to industry regulations to ensure the safe operation of the generator plants, prioritizing the well-being of personnel and equipment.

Customized Efficient Cost-effective Versatile High Purity On-site Hydrogen Gas Generator Plants for Laboratory/Industrial

Choose our factory-direct sales of H₂ hydrogen gas generator plants to meet your on-site hydrogen gas production requirements. With customizable solutions, flexible production capacity, high purity gas output, and cost-effective operation, our generator plants provide a reliable and efficient solution. Benefit from our expert installation and support services, ensuring smooth and safe operation. Contact us today to learn more about our hydrogen gas generator plants and take advantage of our factory-direct sales for competitive pricing, exceptional quality, and personalized customer service.

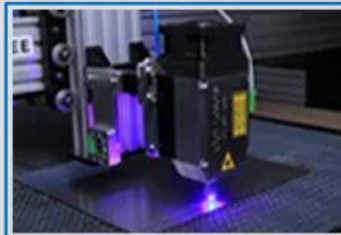
APPLICATION AREA



Oil & gas



Chemicals



Laser cutting



Electronics



Food and beverages



Glass



Metallurgy



Pharmaceuticals

HIDROGEN GAS GENERATOR

Water Electrolysis Hydrogen Generator Specification

| Model | Operating Pressure | Gas Capacity | Purity | Dew point | Estimate Ac power consumption | Installed Power | DM Water Consumption |
|-----------|--------------------|------------------------|---------------|-----------|-------------------------------|-----------------|-------------------------------------|
| JYFQ-0.05 | 10 bar | 0.5 Nm ³ /h | 98.8%-99.999% | -60°C | 5.8-6kwh/Nm ³ /h | 7 KVA | <1L Nm ³ /H ₂ |
| JYFQ-1 | | 1 Nm ³ /h | | | | 10 KVA | |
| JYFQ-2 | | 2 Nm ³ /h | | | | 20 KVA | |
| JYFQ-5 | 16 bar | 5 Nm ³ /h | | | 5.4kwh/Nm ³ /h | 50 KVA | |
| JYFQ-10 | | 10 Nm ³ /h | | | | 100 KVA | |
| JYFQ-15 | | 15 Nm ³ /h | | | 5.3kwh/Nm ³ /h | 120 KVA | |
| JYFQ-30 | | 30 Nm ³ /h | | | | 240 KVA | |
| JYFQ-50 | 16-32 bar | 50 Nm ³ /h | | | 5.2kwh/Nm ³ /h | 400 KVA | |
| JYFQ-100 | | 100 Nm ³ /h | | | | 800 KVA | |
| JYFQ-150 | | 150 Nm ³ /h | | | 5.1kwh/Nm ³ /h | 1200 KVA | |
| JYFQ-200 | | 200 Nm ³ /h | | | | 1600 KVA | |



PT. INDOTARA PERSADA

Our Marketing Office and After Sales Service Center

Head Office

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Jl. M.H. Thamrin No.1
Jakarta Pusat 10310

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dce@indotara.id



Semarang Office

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Jl. Gajah Mada No.135
Semarang, Jawa Tengah 50134

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smg.dce@indotara.id



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Jl. Letjen S. Parman Kav 28,
Jakarta Barat - 11440

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dce@indotara.id



Medan Office

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Jl. Sutomo Ujung No.28,
Kota Medan, Sumatera Utara 20235

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mdn.dce@indotara.id



Graha Indotara

Millenium Industrial Estate
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Cikupa, Tangerang - Banten 15720

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dce@indotara.id



Makassar Office

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Jl. Urip Sumoharjo No. 20,
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