Integrated NH3 Ammonia Cracker Plant For Metal Heat Treatment 400V 50Hz

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: GASPU
- Certification: CE
- Model Number: AF
- Minimum Order Quantity: 1set
- Price: Negotiate
- Packaging Details: Plywood or other type
- Delivery Time: 35work days
- Payment Terms: T/T
- Supply Ability: 6set/month

Product Specification

- Name: Ammonia Cracker
- Voltage: 400V/50Hz(can Be Customized)
- Usage: Hydrogen
- Warranty: One Year
- Type: Ammonia Cracking Furnace
- Power(w): 60KW
- Color: Grey(can Be Cutomized)
- Flow Rate: 60Nm3/h
- Working Temperature: 800~850C
- Cooling Water Consumption(t/h): 1
- Highlight: **Integrated ammonia cracker plant**, **NH3 ammonia cracker plant**, **Integrated nh3 cracker**

Our Product Introduction

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Product Description

Integrated Ammonia Cracker For For Metal Heat Treatment.

Ammonia cracker and hydrogen purificator are set on one skid.

Fully automatic operation with high degree of automation.

Equipped with two-stage pressure reducing valve, sound and light alarm after overpressure.

Controllable silicon controller to control heating and save energy.

Ammonia Cracker is a device that uses liquid ammonia as raw material to produce hydrogen gas through ammonia decomposition reaction. The following is a detailed introduction to the ammonia Cracker:

Working principle
The working principle of ammonia cracker is to heat liquid ammonia to a certain temperature, and through the action of a catalyst, decompose ammonia into hydrogen and nitrogen. The decomposition reaction is an endothermic process that requires external heat supply. Equipment typically consists of reactors, separators, storage tanks, control cabinets, and safety devices.

Equipment features
Easy to obtain raw materials: Liquid ammonia, as a raw material, has a wide range of sources and relatively low prices, making ammonia decomposition hydrogen production equipment have lower operating costs.

High hydrogen purity: The hydrogen produced through ammonia decomposition reaction has a high purity and can meet the needs of various industrial applications.

Environmental friendliness: The process of ammonia decomposition for hydrogen production does not produce harmful substances and is pollution-free, in line with the concept of green development.

Flexibility: The equipment can be modular designed according to needs, facilitating expansion and modification, and adapting to hydrogen production needs of different scales.

Application field: Ammonia cracker is widely used in industrial fields such as chemical, electronics, metallurgy, and food, providing high-purity hydrogen for these industries. For example, in the chemical industry, hydrogen can be used to synthesize chemicals such as ammonia and methanol; In the electronics industry, hydrogen can be used for the preparation and processing of semiconductor materials; In the metallurgical industry, hydrogen can be used for heat treatment and reduction processes of metals.

Precautions for use
When using ammonia cracker, the following points should be noted: first, ensure that the equipment is installed in a well-ventilated and away from open flames; Secondly, it is necessary to regularly maintain and upkeep the equipment to ensure its normal operation and extend its service life; Finally, it is necessary to operate and use the equipment according to its requirements to avoid equipment damage or safety accidents caused by mis operation or overloaded operation. In addition, due to the corrosive and irritating nature of liquid ammonia, operators need to wear protective equipment and receive professional training.

In summary, ammonia cracker is an efficient and environmentally friendly hydrogen production equipment with broad application prospects and market demand. With the continuous development and technological progress of the hydrogen industry, ammonia cracker will play a more important role in the future.

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