

## Industrial Ammonia Cracker Unit Hydrogenation Plant Process 99.99% 5-1000Nm<sup>3</sup>/Hr

Our Product Introduction

### Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: ISO9001, CE, BV, SGS, TUV, ASME, GOST,NB,NR ETC
- Model Number: OSA
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: Exporting wooden case /Film packing
- Delivery Time: 30-45 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 100 sets/months



### Product Specification

- Flow: 5-1000 Nm<sup>3</sup>/hr
- Raw Material: Liquid Ammonia
- Cooling Type: Water
- DP: -70
- Heaters: Included
- Reactor: Inconel 600
- Catalyst: Nickel
- Temperaturer: 800-850
- Temperature Controller: Schneider
- Control Type: PLC Control
- Working Duration: 24 Hrs Non-stop
- Operation Mode: Fully Automatic
- Structure: Vertical/Cylindrical
- Highlight: **hydrogenation plant process, industrial ammonia cracker,**

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## Product Description

### OSA Ammonia cracker(5-1000Nm3/hr) hydrogenation plant 99.99% with CE certificates

Ammonia Cracking unit manufactured and designed with the usage of the purest form of material which is been sourced from the exclusive vendors in the market. Ammonia Crackers Manufacturers are manufacturing the ammonia crackers with the help of cost-effective advance technology.

It has made with the help of keen efforts and absolute technological innovations which are sound and precise.

### FEATURES PROVIDED BY AMMONIA CRACKER MANUFACTURERS

#### FLOW RANGE

We design and deliver Ammonia crackers in a wide flow range. Starting at 1 nm3/hr, we can offer very small compact systems to very high cracked gas flow rates in a single furnace as high as 1000 nm3/hr.

#### CRACKED GAS PURITY

Our custom-designed systems are tailored to your gas purity requirement. The standard cracked gas mixture is in a ratio of 75% H2: 25% N2. We can modulate the cracked gas mix with varying hydrogen and nitrogen percentages. Uncracked ammonia concentration can modulate from 100 ppm down to 1 ppm depending on customer's requirements and budget.

#### HYDROGEN – HIGH PURITY

If the customer requires high purity Hydrogen gas, say at 99%, we offer a purification unit downstream of the cracker furnace which removes the excess Nitrogen and uncracked ammonia. With this option, the customer gets high purity Hydrogen.

#### DEW POINT

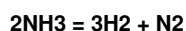
Where important for customer's process requirement of dry gas, our systems designed to deliver cracked ammonia gas at a dew point as low as (-) 80°C. We also offer measuring instruments for online detection of gas dryness.

#### PRESSURE

Cracked gas can be delivered to the customer's process or storage tanks at a pressure as high as 7 kg/cm 2g without the need of a booster compressor. We can also offer and integrate a booster if the customer requires cracked gas at a higher pressure.

#### HOW IT WORKS

Ammonia Cracking Hydrogen generators are Catalytic cracking units in which Ammonia (NH3) is disassociate to Hydrogen and Nitrogen.



Refrigeration grade Ammonia is from cylinders or tanks use as feed. The product gas has 75% Hydrogen and 25% Nitrogen. If required for customer's process, this gas can be further purified in a Molecular Sieves unit by removing un-cracked Ammonia and moisture





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