

## H2 Plant Ammonia Cracker For Hydrogen Decomposition Carbon Steel Annealing

Our Product Introduction

### Basic Information

- Place of Origin: SUZHOU, CHINA
- Brand Name: SUMAIRUI GAS
- Certification: CE, ISO9001, SGS, TUV
- Model Number: OSA-50
- 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

- Capacity: 100-360 Nm<sup>3</sup>/hr
- Material: Stainless Steel
- Reactor: Inconel 600
- Certificates: CE, ISO, ASME, GOST, KGS, NB Etc
- Color: Silver
- Application: Industrial
- Operation Mode: Fully Automatic
- Driving Type: Electrical
- Working Mode: Fully Automatic, 24 Hrs Non-stop
- Heating Time: 5-10min
- Noise Level: ≤50dB
- Product Name: Ammonia Cracker
- Safety Protection: Yes
- Temperature Range: 50-200°C
- Voltage: 220V

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## Product Description

### Ammonia Cracker with Purifier H2 generator by ammonia decomposition for Carbon Steel Bright Annealing

#### Working Principal of Ammonia Cracker Unit

Cracker Unit is a vertical rectangular cross section furnace. It has ceramic blanket insulation lining on the walls and on the top. Floor of furnace is refractory bricks lined. In this furnace retort is suspended from the top. The retort is made of 20% - 25% Chrome / Nickel seamless tubes. This material is suitable up to 1100° C temp. and safe for operating temperature for around 850 deg. C.( maximum). The retort is centrifugal casted having thickness of around 10 mm. On the side wall of the furnace coil type Ni-chrome heating elements are provided refractory supports. Temperature of the furnace box is controlled at 850° C. which in turn gives catalyst bed temperature inside the tubes of around 800°C.

Temperature controllers are twin point type. Lower temperature set point shall be at 800° C. to give alarm in case furnace temperature falls during normal operation. Upper set point would switch on and switch off heaters automatically to maintain furnace temperature at 850° C. Heating elements are equally distributed through out the furnace height and all catalyst tubes are uniformly heated on all sides. Furnaces has ceramic fibers lining and outside furnace wall temperature shall be maximum 60° C.

#### Advantages of Ammonia Cracker Unit

On-site Ammonia cracking Unit to get Cracked Ammonia

It is economical Process to get Cracked Ammonia

It is easy to operate and less maintenance

Less space required



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