

Large Scale Ammonia Cracker Design With Purifier Hydrogenation Facility 200Nm³/Hr

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: 100-400 Nm³/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
- Voltage: 220V

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Product Description

200Nm³/hr Ammonia Cracker with Purifier H₂ Generator from Ammonia decomposition for Reduction Furnaces

BASIC DESCRIPTION

Ammonia gas from cylinders passed over a bed of nickel catalyst at 850 °C temperature and cracking take place in two different gas i.e. 75% Hydrogen and 25% Nitrogen.

$2\text{NH}_3 \rightarrow \text{N}_2 + 3\text{H}_2$ (IN PRESENCE OF NICKEL CATALYST AT 850 °C)

Ammonia cracking is endothermic reaction and require heat from other source. The source is electrically heated/gas fired furnace (Rectangular Shape) and a retort made of heat resistance alloy is provided to hold the ammonia cracking catalyst. Cracked ammonia from furnace is cooled to ambient temperature in a shell & Tube type heat exchanger and having dew point around (-) 30 °C. Further product gas is passed through a molecular sieves filled Gas Purifier to achieve a dew point up to (-) 80 °C.

SALIENT FEATURES

- Centrifugally cast retort
- Furnace skin temperature is 20 °C
- Dew Point up to (-) 80 °C
- Heating Element is Ni-Cr (80-20%)
- Long service cycle, Negligible maintenance, High turn down ratio
- Heavy duty operations for years and years
- Fully automatic no need of operator

APPLICATION

- Heat Treatment Furnace for bright annealing
- Brazing Industry
- For Gas Purification System
- Stainless Steel Industry
- Power Sector

Major applications of Ammonia Cracker Unit

- I On site Generation of cracked gas Ammonia
- I For Nitrogen Generation Plants
- I Pipe Manufacturing Industry
- I Sintered Brazing Industry
- I Galvanizing Plants
- I Automobile Industry
- I Heat Treatments





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