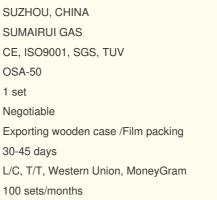


# Large Scale Ammonia Cracker Design With Purifier Hydrogenation Facility 200Nm3/Hr

## **Basic Information**

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:





### **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                  |
| <ul> <li>Driving Type:</li> </ul>      | Electrical                       |
| Working Mode:                          | Fully Automatic, 24 Hrs Non-stop |
| <ul> <li>Heating Time:</li> </ul>      | 5-10min                          |
| Noise Level:                           | ≤50dB                            |
| <ul> <li>Product Name:</li> </ul>      | Ammonia Cracker                  |
| <ul> <li>Safety Protection:</li> </ul> | Yes                              |
| • Temperature Range:                   | 50-200°C                         |
| • Voltage:                             | 220V                             |

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.

#### 2NH<sub>3</sub>->N<sub>2</sub> + 3H<sub>2</sub> (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





S



No 161, ZhongfengJie, Suzhou High technology district, Suzhou