GASFE AMMONIA DISSOCIATOR PLANT



DISSOCIATED AMMONIA (CRACKED AMMONIA)

Cracked ammonia gas is a combination of hydrogen and nitrogen gas. After the purification system, this gas mixture has a high pure N₂+H₂ with less impurities. This gas mixture is used for versatile applications.



GAS COMPOSITION

75% Hydrogen + 25% Nitrogen

RESIDUAL AMMONIA (UNCRACKED)

1-ppm max.

DEW POINT OF OUTLET GAS

Upto (-)80 C

FURNACE HEATING METHOD

Electrically heated

PRODUCT RANGES

5 NM /hr to 200 NM /hr

GAS OUTLET PRESSURE

Up to 7 kg/cm g directly

from the Cracking Unit If required, a booster gas compressor is added to increase the pressure of the cracked ammonia.

CRACKING TECHNIQUE

Ammonia is cracked using the Thermal Cracking technique **endothermic reaction** to produce disassociated ammonia ($NH_3 - N_2 + 3H_2$) which consists of 75% Hydrogen and 25% Nitrogen. This output gas is further purified through a purification system by removing traces of uncracked ammonia and moisture.

SPECIFICTIONS / DATA

Output pressure : Max.7 bar

Dew point : upto (-80°C)

Residual ammonia : 1-ppm (max)

Outlet temperature : + 15 °C above ambient



Applications:

- For providing reducing atmosphere for all types of Furnaces
- Stainless steel wire annealing, Bright annealing, Bimetal products annealing and Powder annealing
- Stainless steel Brazing application
- Continuous galvanizing lines
- PM industries for Sintering.
- Heat treatment industries for case hardening like Nitriding, Nitrocarburizing

Highlights:

- Energy efficient
- Fully automatic
- Improved design
- High turndown ratio H_2 75% N_2 < 25%
- Quick startup.
- Least maintenance.

PRODUCT LINE

GAS GENERATORS WITH PURIFICATION SYSTEM

Nitrogen Gas Generator

Cracked ammonia Gas Generator

Oxygen gas generator

Compressed Air Dryers (CAT)

All type of Batch/Continuous Furnaces and aligned accessories



GasFe Technology

No, 40, Jayanagar Main Road, Jaya Nagar, Thiruvallore - 602001

E-Mail: info@gasfetechnology.com

Phone: +91 9381344242, +91 8778939763

website: www.gasfetechnology.com