

MEMBRANE BASED NITROGEN GAS GENERATOR



ISO 9001 : 2015 CERTIFIED COMPANY



NITROGEN GAS PLANT

- PSA Technology
- Membrane

HYDROGEN GAS PLANT

- Ammonia Cracking Units
- Water Electrolysis Based

OXYGEN GAS PLANT

- PSA Technology
- VPSA Technology
- Medical Grade

COMPRESSED AIR DRYERS

GAS PURIFICATION SYSTEMS

HYPOXIC CHAMBERS / SYSTEMS

SAM GAS PROJECTS is **ISO 9001:2015** certified, Professionally Managed Engineering Organization, Specialized in Design , Manufacture , Supply & commissioning of **'State of the Art'** Gas Plants and Compressed Air Systems.

SAM GAS PROJECTS has supplied more than **1500** Systems, which are working satisfactorily all over India & across the Globe in more than **50 countries**.



Precisely Right.

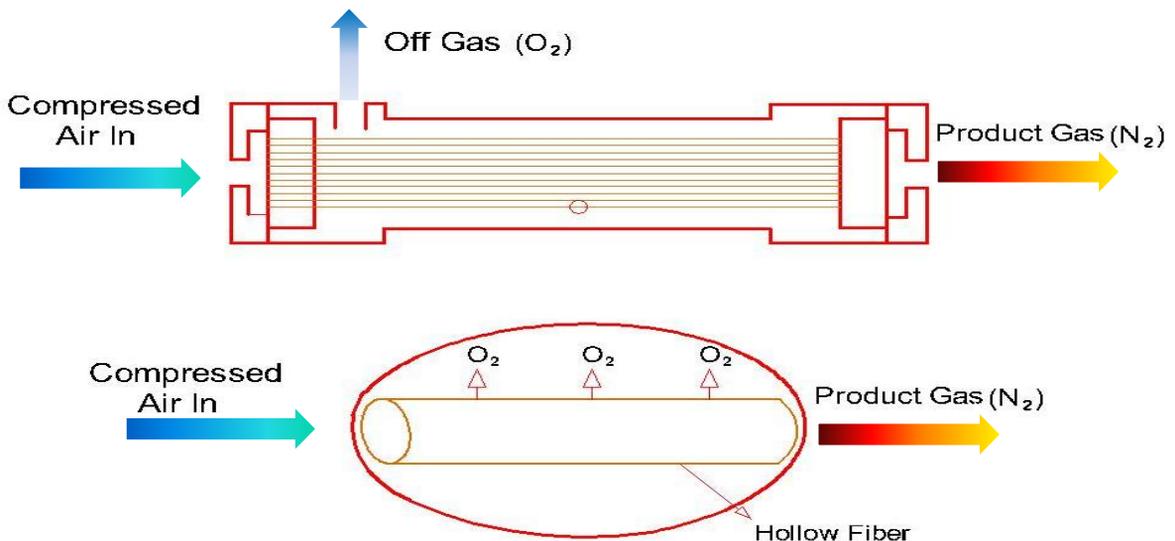
ISO 9001 : 2015 CERTIFIED CO.

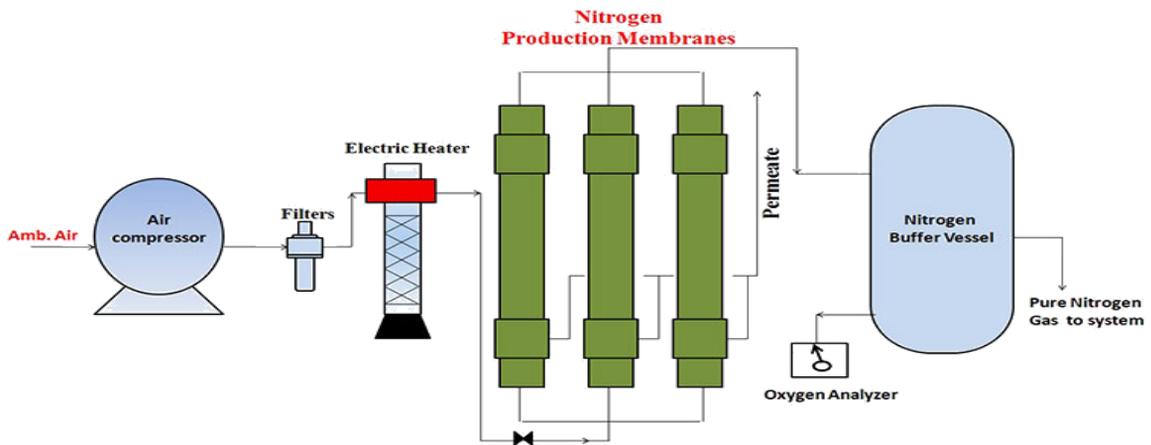
The principle of membrane separation of gas mixtures is based on the difference in the rate of penetration of gas mixture components through polymer membranes due to partial pressure drop on the membrane sides. In air mixture, oxygen has higher penetration ability as regards the membrane than nitrogen.



In the manufacture of its air / gas separation plants, “**SAM GAS Projects**” uses the most sophisticated fifth-generation membranes. The modern membrane is no longer a flat plate or film; it consists of porous polymer fibers with a gas separation layer applied to its external surface.

Structurally, membrane hollow fibers are specially configured to form a cylindrical cartridge with two end parts bundling fiber outlets. The cartridge is placed in the membrane module with one pipe fitting for intake of the feed gas mixture and two pipe fittings for discharge of separated components





TECHNICAL SPECIFICATIONS

- Capacity : 1 to 1000 NM³/Hr
- Purity : 95% to 99.9%
- Oxygen : 5.0% to 0.1%
- Dew Point : (-) 40°C ADP or better
- Pressure : 2.0 to 25 Barg

ADVANTAGES

- On Site Nitrogen Generation
- Compact Design
- Ready to use Systems
- Less Moving parts
- Less Noise Level
- Longer Fiber Life
- Negligible Maintenance



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