

Committed To Quality

AIR-N-GAS PROCESS TECHNOLOGIES

AN ISO 9001:2008 Certified Company

YOUR PARTNER FOR ALL YOUR AIR & GAS NEEDS



PSA NITROGEN PLANT



PSA OXYGEN PLANT



AMMONIA CRACKER



REFRIGERATED AIR DRYER



HEATLESS AIR DRYER



INTERNALLY HEATED DRYER



HOC AIR DRYER



SPLIT FLOW AIR DRYER



LOW PRESSURE AIR DRYER



DESSICANT BASED BIO GAS DRYER



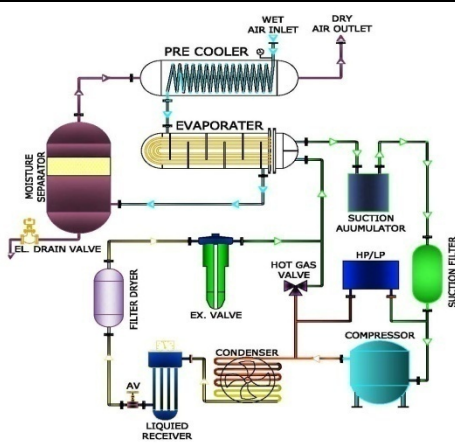
AIR CHILLER



WATER CHILLER

AIR & GAS DRYER

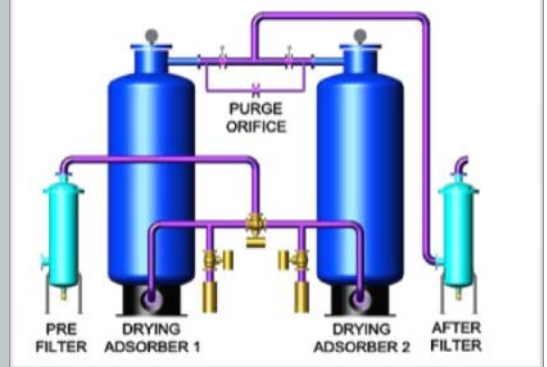
REFRIGERATED DRYER



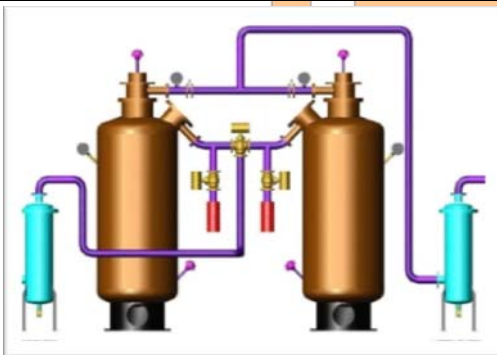
- Simple Non Cyclic operation.
- Low operating cost.
- Low Noise.
- Zero Purge Loss
- Even lubricated air can be dried
- Suitable for any capacity
- PDP of 3 Deg C
- Electronic Control.
- Environment Friendly Refrigerant

HEATLESS AIR DRYER

- Simple operation.
- Easy to maintain.
- Microprocessor based Controller with Purge Saver.
- No need of heater or cooler.
- Atmospheric dew point of (-) 40 to (-) 60 Deg C can be easily achieved.

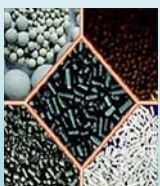


INTERNALLY HEATED DRYER



- Saving in purge air loss.
- Dew point upto (-) 80 Deg C (atm) can be achieved.
- Compact design.
- Simple operation
- Most economical in the range from 200 CFM – 1000 CFM

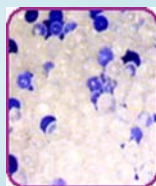
COMMITTED TO QUALITY



DESSICANT



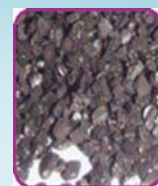
CMS



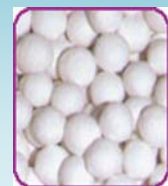
SILICAGEL



SILICAGEL YELLOW



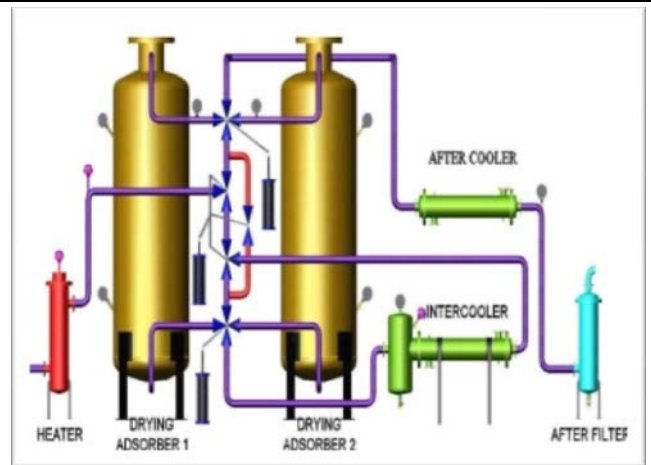
ACTIVATED CARBON



ALUMINA

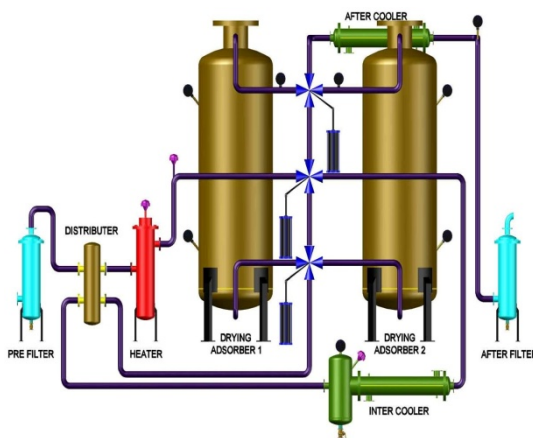
HEAT OF COMPRESSION (HOC) DRYER

- A breakthrough in Dessicant Drying
- Uses Heat generated during compression for regeneration of dessicant.
- No purge loss.
- Saving on electrical Heater load.
- Atmospheric dew point of (-) 60°C can be easily achieved.
- Most economical in the range from 400 CFM onwards



NO PURGE LOSS SPLIT FLOW DRYER

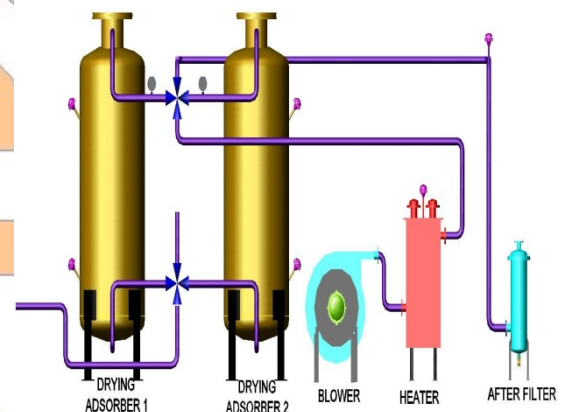
- Based on using partial air for heating and regeneration.
- Used where inlet air temperature is not high.
- No purge loss.
- No need of blower.
- No used of external air thus eliminating risk of contamination.
- Most economical in the range from 400 CFM onwards



BLOWER REGENERATED DRYER

In this dryer, the regeneration air is supplied from a blower which is heated in a heating chamber and thus increasing its moisture carrying capacity. This hot air is passed through the desiccant bed for regeneration.

- Low operating cost for high capacities.
- Dew point upto (-) 60°C can be achieved.
- Most economical in the range from 1000 CFM onwards



RECEIVER



HEAT EXCHANGER



AUTO DRAIN



FILTERS



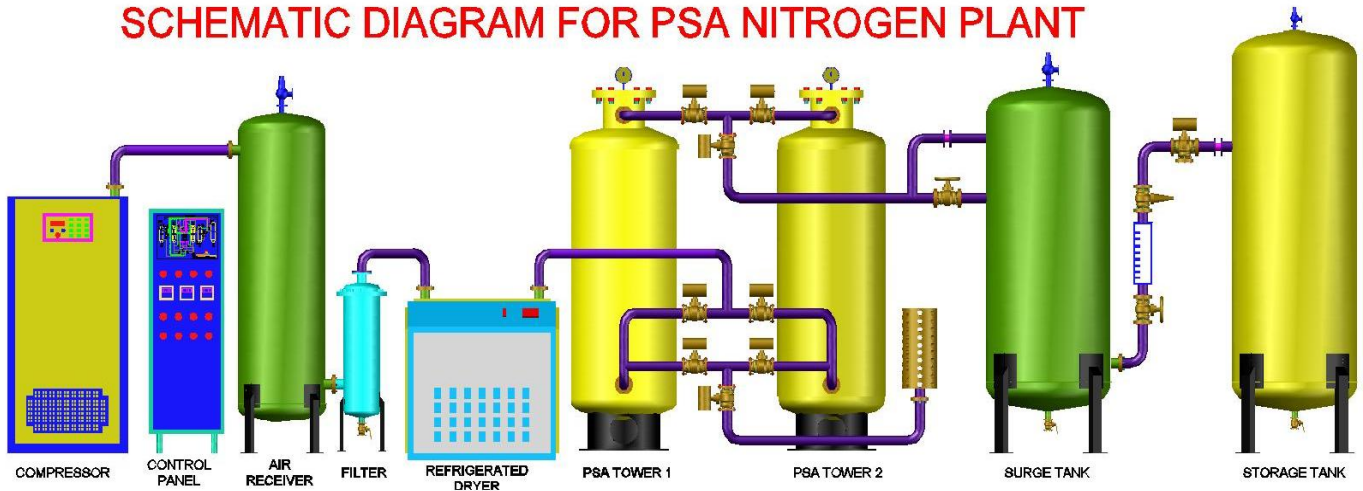
MOIS. SEPARATOR



COMPRESSOR

PSA NITROGEN GAS GENERATION PLANT

SCHEMATIC DIAGRAM FOR PSA NITROGEN PLANT



- **Fully Automatic Operation** requiring no special attention
- **Generates Nitrogen** as and when required
- **Easy to install and maintain**
- **Purity of Nitrogen** up to 99.9999% can be achieved
- **Generates Nitrogen** at almost 1/10 th cost of cylinder nitrogen
- **Based on Proven PSA Technology**
- **Using Latest Low Temperature Separation Technology** for better performance.

We at Air-N-Gas manufacture state of art PSA Based Nitrogen Gas Generation Plant which is based on molecular separation of Nitrogen from compressed air with the use of CMS (Carbon Molecular Sieve). It is a twin tower system interconnected with automatic changeover valves which operates automatically after a prefixed timing signal coming from centralized control panel. System is designed according to the requirement of purity of nitrogen gas generated.



PN Model- Nitrogen purity of 99.99% or more can be achieved with this model with only CMS columns and without using any additional Deoxo unit.

UHP Model- For achieving ultra high purity up to 99.9999% Deoxo unit is provided after basic PN Module.



BAS



AMMONIA CRACKER



WATER CHILLER



AIR CHILLER



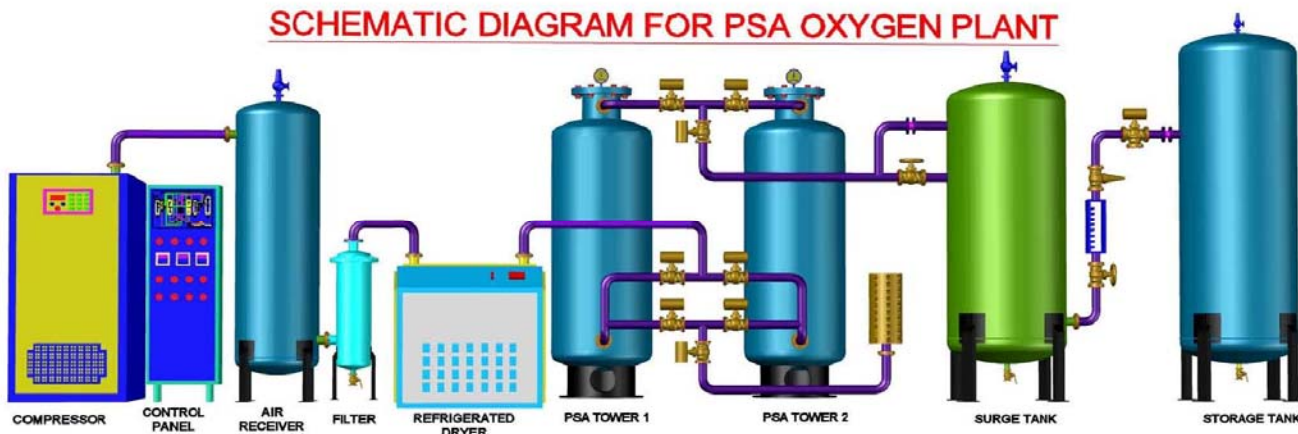
HIGH PRESSURE DRYER



LP DRYER

PSA OXYGEN GENERATION PLANT

SCHEMATIC DIAGRAM FOR PSA OXYGEN PLANT



We at Air-N-Gas manufacture state of art PSA Based Oxygen Gas Generation Plant which is based on molecular separation of Oxygen from compressed air with the use of ZMS (Zeolite molecular sieves) It is a twin tower system interconnected with automatic changeover valves which operates automatically after a prefixed timing signal coming from centralized control panel. System is designed according to the requirement of purity of Oxygen gas generated.

Purity of Oxygen is between 93% to 95%.

APPLICATIONS:

1. Ozone Generator
2. Paper & pulp
3. Medical Oxygen
4. Aquaculture
5. Oxygen enrichment in furnace

- Fully Automatic Operation requiring no special attention- Man less Operation
- Generates Oxygen as and when required – Plug It, Switch On & Forget
- Easy to install and maintain – Skid Mounted & pre-commissioned
- Purity of Oxygen up to 93-95% can be achieved
- PSA (Twin Tower Pressure Swing Adsorption)Based up to 150 NM³/hr
- VPSA (Three Tower)For 150 Nm³/hr to 1500 Nm³/hr



Z M S



DEW POINT SENSOR



O2 ANALYSER 3 POINT



O2 ANALYSER 4 POINT



N2 GENERATION PLANT

About Us

Air-N-Gas Process Technologies was established in the year 2007, with an aim to boost the technical advances in the field of Adsorption based Gas Separation Systems, Air Filters and Air Dryers. In this short span of time, we have earned ourselves a niche in the air dryers industry and have established a great rapport amongst the leading manufacturers, exporters, traders and suppliers.

Supported by a group of efficient technocrats, we are headed by Mr. Shailesh Verma (B.Tech-Mech, DMM), who has accumulated a rich experience of more than 17 years in the respective field. Today, we have emerged as a specialized concern in **designing, manufacturing, exporting, site installation and commissioning** of a varied range of products like **PSA Nitrogen/Oxygen Gas Generators, Compressed Air Drying Units, High/Low Pressure Dryers, Air Filters, After Coolers, Auto Drain Valves, Air Receivers, Pressure Vessels, Air & Water Chillers, etc.**

SERVICES OFFERED

- Upgradation and capacity enhancement of PSA Gas Generators
- Purity Correction and system modification for PSA Gas Generators
- Optimal Setting of process parameters for efficient operation
- Recommissioning and servicing of PSA Plants
- Annual Maintenance Contract (Comprehensive and Non-comprehensive)
- Supply of all types of Dessicants and Catalysts for Gas Generators and Air Dryers
- Supply of all types of spares compatible to all the makes of Gas Generators/Dryer

SOME OF OUR VALUED CLIENTS:-

- AM OZONIC PVT. LTD.
- ATUL LTD.
- ATOP FOOD PRODUCTS
- CADILA PHARMA
- CLARIS LIFE SCIENCES
- CREAMY FOOD PVT. LTD.
- ECONOMODE FOOD EQUIPMENT
- GONDUR INDIA PVT. LTD.
- GREEN PLANET ENERGY
- GSP CROP SCIENCE
- GUJARAT POLYFILS
- HINDUSTANCHEMICALCOMPANY LTD.
- ISRO
- IPR
- INNOVATIVE
- ENVIORMENTALTECHNOLOGIES LTD.
- INDO AMINES LTD.
- JINDAL STEEL & POWER
- KILITCH DRUGS (I) LTD
- KANDLA ENERGY & CHEMICALPVT. LTD.
- NOVA PETROCHEMICALS
- ORIENT BIOWATER LTD.
- PARSHURAM SOLVEX
- PRAJ INDUSTRIES
- PERFECT FILAMENT
- RAJ RAYON
- RAJASTHAN HOSPITAL
- RIDDHI SIDDHI GLUCO BIOL
- RADIKAL OVERSEAS PVT. LTD.
- SANATHAN TEXTILES
- SKP BEARING INDUSTRIES
- TATA MOTORS
- WELSPUN SYNTEx
- ZYDUS CADILA



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