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NITROGEN

OXY
GEN

Committed To Quality

AIR-N-GAS

PROCESS TECHNOLOGIES

url : www.air-n-gas.com

AN ISO 9001:2008 CERTIFIED COMPANY

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

JAS-ANZ

- PSA NITROGEN PLANT
- PSA/VPSA/VSA OXYGEN PLANT
- AMMONIA CRACKER
- AIR/GAS DRYER
- BIOGAS TO CNG CONVERSION & DRYER
- AIR/WATER CHILLER

DRYER

THE COMPANY

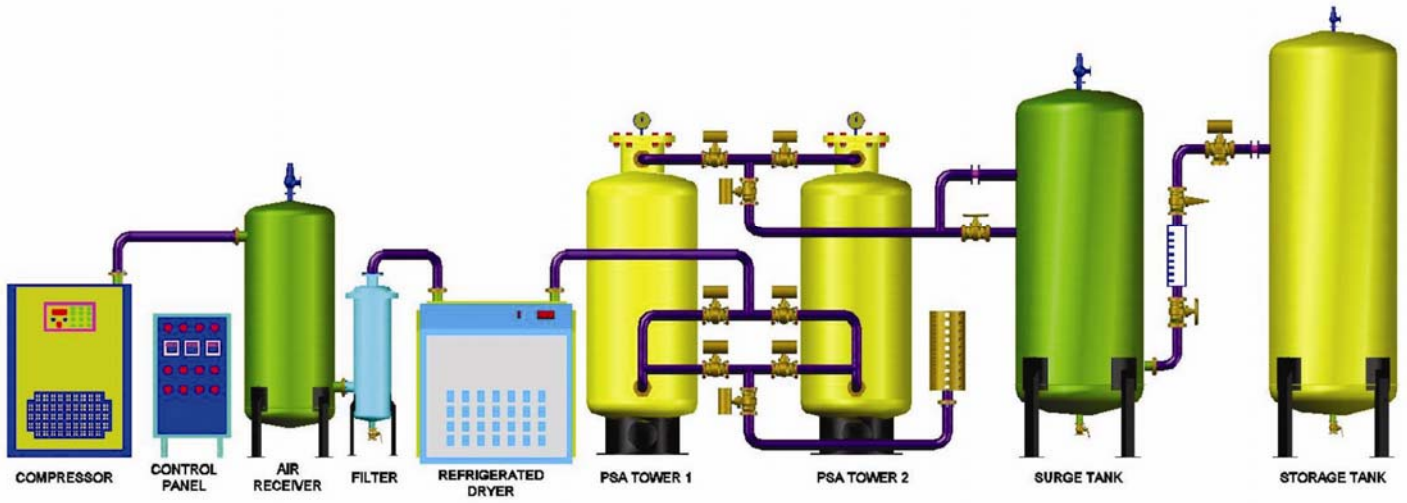
Air-N-Gas Process Technologies AN ISO 9001 CERTIFIED COMPANY was established in the year 2007, with an aim to boost the technical advances in the field of Adsorption based Gas Separation Systems, Air Filters and Air Dryers. In this short span of time, we have earned ourselves a niche in the air dryers 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 22 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 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.

Delivering a high on performance range of products and services, we aim to be a leading name as a manufacturer, exporter and service provider in the concerned field. Experimental outlook and innovative designing power have enabled us to established a firm base, and we are sure that the same will take us ahead as well.

We have our own well equipped factory with state of art equipments to provide excellent quality equipment with stagewise strict quality controls.

PSA NITROGEN/OXYGEN GENERATION PLANT



PSA (Pressure Swing Adsorption) Technology a revolution in Non Cryogenic Air Separation and Nitrogen/Oxygen Generation Technology by the use of special grade of MS (Molecular Sieve).The compressed air is passed through a Twin Tower PSA module interconnected with automatic changeover valves. At a time one tower remains under Nitrogen/oxygen production cycle, whereas the other tower undergoes regeneration which is achieved through depressurization of the tower to atmospheric pressure.

Applications of our PSA nitrogen plants :

- Metallurgical industries – To provide Inert Atmosphere
- Synthetic & fiber industries
- Chemical industries – Nitrogen Blanketing
- Food Packaging industries
- Pharmaceutical industries
- Optical fiber industries
- Electronic industries
- Tyre Inflation – Longer Life & Low seepage of Air

Applications of our PSA oxygen plants :

- Glass and Enamel Industry
- Steel Industry
- Pulp and paper Industry
- Chemical Industry
- Drinking Water Supply
- Waste Water Treatment and Waste Disposal Industries
- Biotechnology Industry
- Medical oxygen plant

SALIENT FEATURES OF PSA NITROGEN PLANT

- Fully Automatic Operation requiring no special attention. Man less Operation.
- Generates Nitrogen as and when required
- Easy to install and maintain.
- Purity of Nitrogen up to 99.9999% can be achieved. Purity of Oxygen 93 ± 2 %.
- Generates Nitrogen at almost 1/10 th cost of cylinder nitrogen.
- Based on Proven PSA Technology. More than 1000 Plants based on PSA Technology operating successfully in India.
- Low power consumption.ast and easy start up
- Digital purity analyser

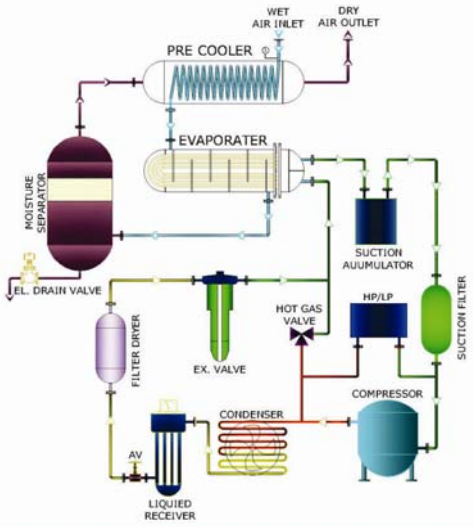
Copper De-oxo Unit

PSA Nitrogen Plant

PSA Oxygen Plant

N2 Tyre Inflator

AIR / GAS DRYER

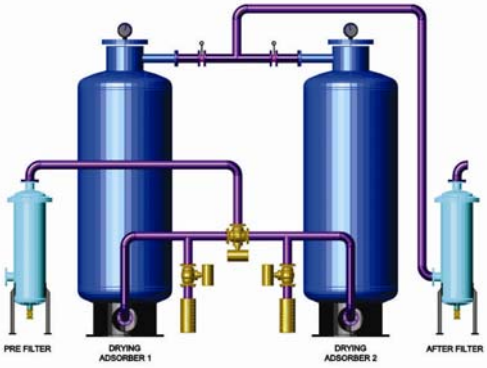


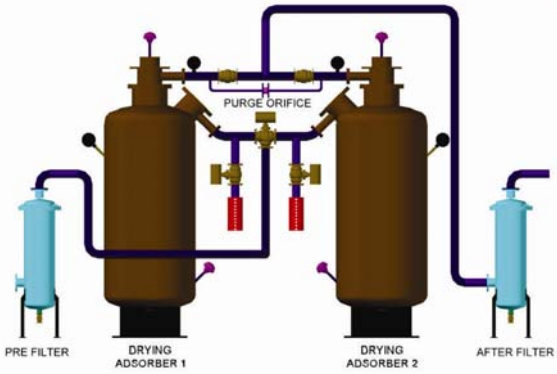
REFRIGERATED DRYER

- Simple Cyclic operation.
- Low operating cost.
- Low Noise.
- Zero Purge Loss
- Suitable for any capacity
- PDP of 3 Deg C
- Electronic Control.
- Environment Friendly Refrigerant

HEATLESS DESSICANT DRYER

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

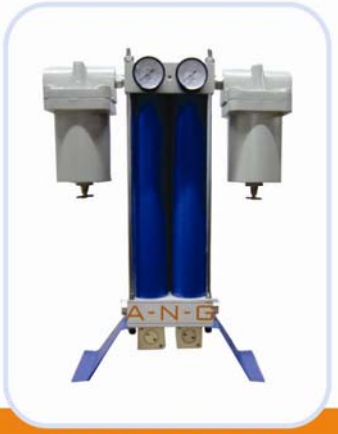




INTERNALLY HEATED DRYER

- Advanced Version of Dessicant Dryer with Saving in purge air loss.
- Dew point upto (-) 80 Deg C (atm) can be achieved.
- Compact design.
- Simple operation
- Longer Life of Dessicant.
- Microprocessor based Controller with MIMIC Display
- Low Power Consumption.

REFRIGERATED DRYER



MINI HEATLESS DRYER

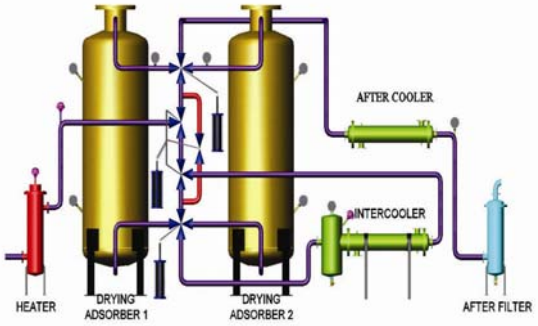
INTERNALLY HEATED DRYER

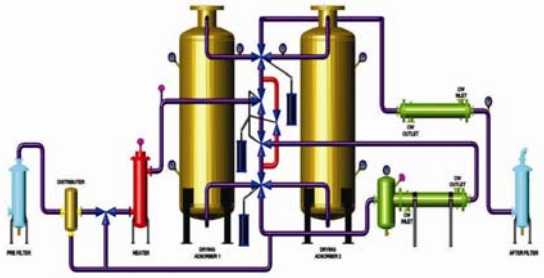
HEATLESS DRYER

AIR / GAS DRYER

HEAT OF COMPRESSION (HOC) DRYER

- Breakthrough in Air Drying Technology.
- Based of utilization of Heat Generated during compression for regenerating the dessicant.
- Zero purge loss and virtually zero energy Loss.
- Dry Air Cooling Technology to avoid dip in Dew Point during changeover
- Atmospheric dew point of (-) 40^{0}C and better can be easily achieved.
- Most economical in the range from 400 CFM onwards



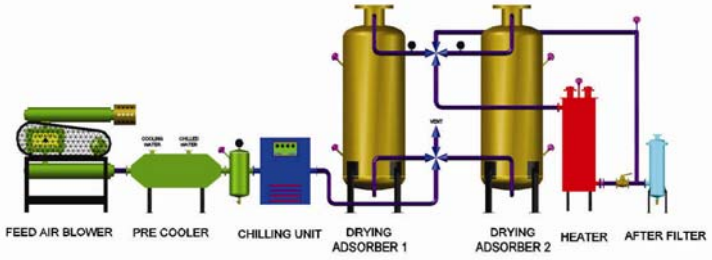


NO PURGE LOSS SPLIT FLOW DRYER

- Widely used where inlet air Temperature is not high.
- Inlet Air is divided into two parts and regeration is done by heating one part of Inlet Air and recirculating it through Heater & Cooler.
- No purge loss.
- Saving in Heater Load.
- No need of External Blower.
- No used of external air thus eliminating risk of
- contamination.

LOW PRESSURE DRYER

- At low temperature moisture in air is very high and hence a combination dryer (refrigeration & dessicant) with molecular sieve.
- Low operating cost for high capacities.
- Dew point upto (-) 80 Deg C can be achieved.
- Low regeneration cost.
- Low capacity heater required.



HEAT OF COMPRESSION DRYER

SPLIT FLOW NO PURGE LOSS DRYER

LOW PRESSURE DRYER

BIOGAS TO CNG & DEHUMIDIFICATION

Refrigerated Dryer

Features and Benefits

- Stainless steel heat exchanger
- 3°C Pressure dew point
- CFC free refrigerant
- Structural solid steel base

Application

- Landfill gas
- Dehydration Digester gas
- dehydration
- Waste water treatment plants
- Breweries and wineries
- Cheese plants

Dessicant Dehumidifier

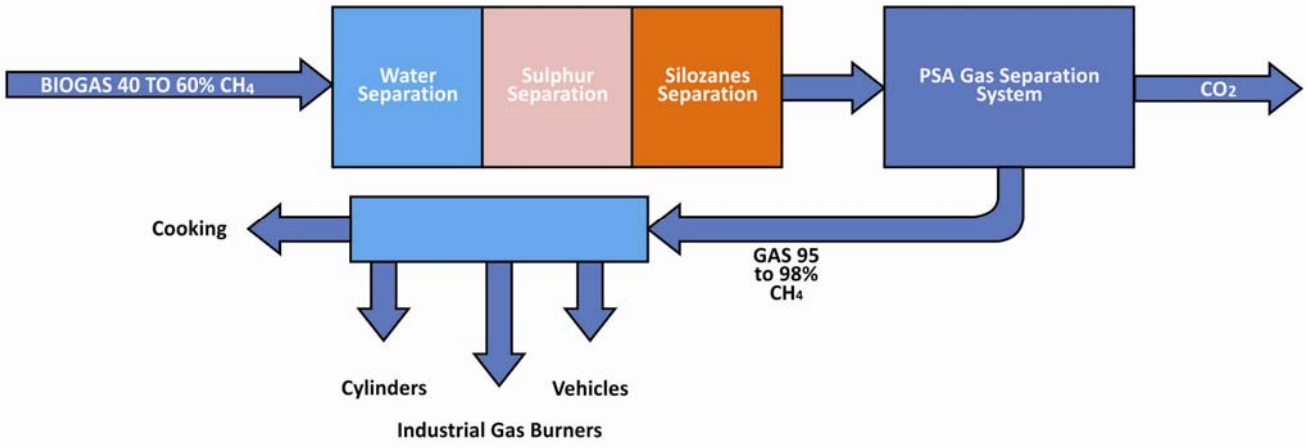
Features and Benefits

- - 40°C dew point
- Dessicant based
- Low maintenance
- Low operating cost
- Skid mounted

BIO GAS TO CNG CONVERSION SYSTEM

The bio Gas contains normally 40-60% methane and rest being CO2 and N2. For getting the enrichment of methane to convert it into comparable to Natural gas CO2 & N2 has to be taken out from Bio Gas. For this we provide PSA/VPSA/VSA based twin Tower adsorption system. This purifies the Bio Gas to methane 92-98% pure. This is a fully automatic system and manless operation. In this system Bio Gas is compressed and passed over Molecular Sieve where CO2 & N2 is adsorbed and pure methane with 92-98% purity is obtained.

SCHEMATIC DIAGRAM BIOGAS TO BIOMEHANE (CNG) CONVERSION



AIR / WATER CHILLER

Features and Benefits

- Customized solution
- Low maintenance cost
- Durability Easy installation
- Perfect cooling
- Performance oriented
- Easy operations
- Functional efficiency
- Rugged construction

Application

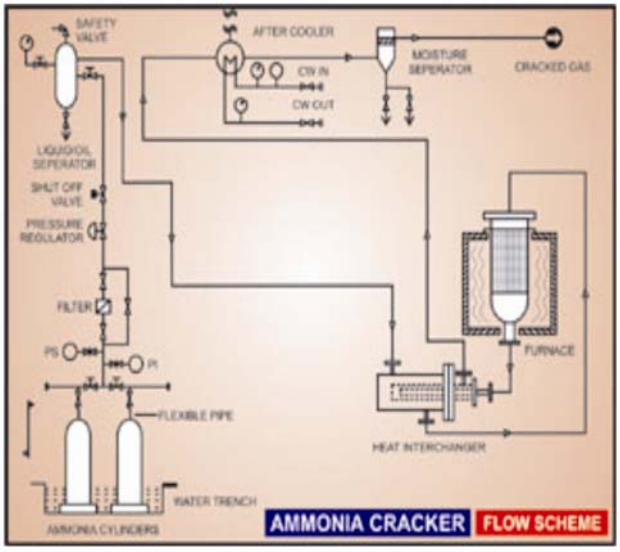
- Chemical industries
- Oil & gas industries
- Textile industries

AMMONIA CRACKER

Ammonia Crackers produce Cracked Ammonia (NH_3) Gas using Anhydrous ammonia from cylinders. Cracked ammonia contains 75% Hydrogen and 25% Nitrogen and the product gas is very dry & oxygen free. In heat treatment furnaces, this gas is widely used in reducing atmosphere. Where ever pure hydrogen is needed, cracked ammonia gas serves as a very cost-effective substitute.

Application :

- PSA Nitrogen plant in palladium de-oxo system
- Hydrogen generator



AMMONIA CRACKER

WATER CHILLER

AIR CHILLER

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

Our Group Companies

- MAAS Engineering, Ahmedabad – Was established in the year 2009. Company is offering services & spares parts for Nitrogen Plant, Oxygen Plant, Various Air Dryers, Air & Water Chiller etc.

SOME OF OUR VALUABLE CLIENTS

WELSPUN Dare to Commit WELSPUN SYNTEX LTD. · VA TECH WABAG WABAG · PRAJ · ATOP FOOD PRODUCTS · GREEN PLANET ENERGY · TATA MOTORS · Sanathan Textiles Yarns for the Fabric of Life www.sanathan.com · Claris · इसरो isro · Reliance Industries Limited Growth is Life · innovative ENVIRONMENTAL TECHNOLOGIES PVT LTD · JINDAL STEEL & POWER · GSP Crop Science Pvt. Ltd.

CHEMICAL INDUSTRIES

- RELIANCE INDUSTRIES
- ATUL LTD.
- CHEMPRO
- INDO AMINES
- KANDLA ENERGY & CHEM.
- MATANGI INDUSTERIES
- DEEPAK NITRITE LTD
- HINDUSTAN MISWACO
- HINDUSTAN CHEMICAL
- ACETO CHEM
- RALLIS INDIA

METALLURGY

- SKP BEARING
- SVE ROCK TOOL
- DGN FASER
- RIMTEX IND.

PHARMACEUTICALS

- CLARIS LIFE SCIENCES
- TROIKAA PHARM.
- KILITCH DRUG LTD.
- PIRAMAL HEALTHCARE
- ZYDUS CADILA
- INTAS PHARMA
- TORRENT PHARMA
- ARISTO PHARMA
- VITALHEALTHCARE

BIOGAS

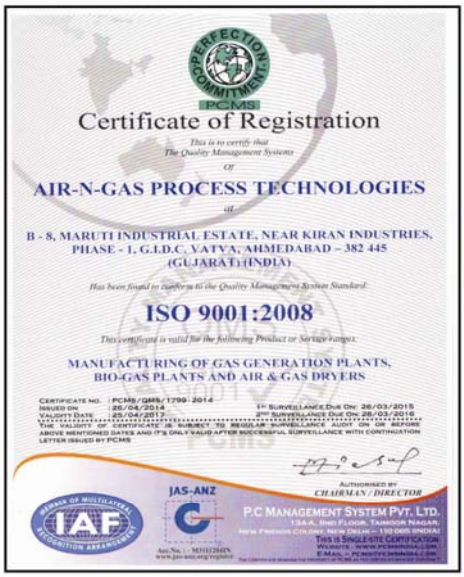
- PRAJ INDUSTRIES
- MAIZE PRODUCTS
- RIDDHI SIDDHI GLUCO
- GREEN PLANET ENERGY
- INNOVATIVE TECHNOLOGIES

TEXTILE

- SANATHAN TEXTILES
- WELSPUN SYNTEX
- SHREE DURGA SYTEX
- SARLA PERFORMANCE
- RAJ RAYON
- FILATEX LIMITED
- GUJRAT POLYFILS
- NOVA PETROCHEMICALS
- SUMEET INDUSTERIES

FOOD INDUSTRIES

- ECONOMODE FOOD
- GANDOUR INDIA
- ATOP FOODS
- CREAMY FOOD
- SMC FOODS
- RADICAL OVERSEAS


Certificate of Registration

This is to certify that The Quality Management System of

AIR-N-GAS PROCESS TECHNOLOGIES

at

B - 8, MARUTI INDUSTRIAL ESTATE, NEAR KIRAN INDUSTRIES, PHASE - 1, G.I.D.C, VATVA, AHMEDABAD – 382 445 (GUJARAT) (INDIA)

Has been found to conform to the Quality Management System Standard:

ISO 9001:2008

This certificate is valid for the following Product or Service Range:

MANUFACTURING OF GAS GENERATION PLANTS, BIO-GAS PLANTS AND AIR & GAS DRYERS

CERTIFICATE NO. : PCMS/QMS/1799/2014
ISSUED ON : 25/04/2014
VALIDITY DATE : 25/04/2017
1st SURVEILLANCE Due On: 26/03/2015
2nd SURVEILLANCE Due On: 26/03/2016
THE VALIDITY OF CERTIFICATE IS SUBJECT TO REGULAR SURVEILLANCE AUDIT ON OR BEFORE ABOVE MENTIONED DATES AND IT'S ONLY VALID AFTER SUCCESSFUL SURVEILLANCE WITH CONTINUATION LETTER ISSUED BY PCMS

AUTHORISED BY CHAIRMAN / DIRECTOR

JAS-ANZ · IAF · P.C MANAGEMENT SYSTEM PVT. LTD. · THIS IS SINGLE SITE CERTIFICATION


SMERA · NSIC · D&B Decide with Confidence

This is to certify that
Air-N-Gas Process Technologies
B-8, Maruti Industrial Estate, Near Choksi Tube, Phase -1, GIDC Vatva, Ahmedabad - 382 445,Gujarat, India
is now part of the
Dun & Bradstreet Global Database
and has been assigned the
D&B D-U-N-S® Number: 67-693-9111

For Dun & Bradstreet Information Services India Private Limited

Authorized Signatory

February 29, 2012

Committed To Quality

AIR-N-GAS PROCESS TECHNOLOGIES

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