



**ADON EQUIPMENTS PVT LTD.**



**PSA NITROGEN PLANT**

**MEDICAL OXYGEN PLANT**

**PSA OXYGEN PLANT**

**COMPRESSED AIR DRYER**

[www.adonequipments.com](http://www.adonequipments.com)



We are pleased to introduce ourselves as ADON EQUIPMENTS PVT LTD. A leading manufacturer and suppliers of PSA based Gas Generation Systems, Compressed Air Dryers, Purification systems, Air Filters, Air Receivers. We preserve the best quality and technique advancement policy with the name of AEPL. Our perfect technique begins from the spirit of endless challenge for the future and limitless endeavor for good quality.

The AEPL products feature state-of-the-art technology to meet international accurate quality standards and assure high performance with lowest level of pollution and energy consumption. Quality assurance is not a department, but an attitude of everyone at AEPL. The emphasis from everyone at AEPL is not on defect detection, but on defect prevention and elimination. Some of the following codes but not limited to, according to those we could fulfill your requirement.



### Our Certification

- ISO 9001:2015
- ISO 13485:2016

### Our Infrastructure

- 10,370 Sq.ft area size
- 5 TN overhead double girder crane

### Our Machineries

- 400A Welding machine - 8+ set
- Plasma Cutting Machine - 1 set
- Bending Machine
- MIG Machine - 1 set
- Magnetic Drill Machine - 2 set
- Cut-off Machine - 2 set

### Testing Equipments

- Hydraulic Pump - 1 set
- Ultrasonic Thickness Tester



## **OUR MISSION**

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Our mission is to offer superior quality products to our clients through continuously maintaining the high quality levels with the implementation of stringent checks on regular basis.

## **OUR VISION**

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Our Organization believes in working with knowledge, technical innovation and teamwork. we have been focusing on leveraging these assets to deliver solutions that improve our performance and customer's satisfaction.

## **OUR RANGE OF PRODUCTS**

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### **◆ ONSITE PSA GAS GENERATORS**

PSA Nitrogen Plant ● PSA Oxygen Plant ● Medical Oxygen Plant

### **◆ COMPRESSED AIR & GAS DRYERS**

Heatless ● No Heat Regenerative Adsorption ● Heat of Compression (HOC)  
Internally Heated ● Externally Heated ● Split Flow No Purge Loss ● Refrigerated  
Low Pressure (2 Tower & 3 Tower System)

### **◆ OTHER GAS GENERATORS**

Ammonia Crackers

### **◆ PURIFICATION SYSTEMS**

Copper De-Oxo System ● Palladium De-Oxo System  
Bio gas Purification / Dehumidifier ● CO<sub>2</sub> Gas Purifier ● Ammonia Purifier

### **◆ GAS ANALYSERS AND SENSORS**

Oxygen Analyzers & Sensors ● Dew Point Sensor ● RH Sensor

### **◆ RECEIVERS AND STORAGE TANKS**

Low & High Pressure Air Receivers ● Nitrogen & Oxygen Receiver Tanks

### **◆ CHILLERS & COOLERS**

Water Cooler ● Air Cooler ● Air & Gas Chillers

## ONSITE PSA GAS GENERATORS



### PSA NITROGEN PLANT

Nitrogen generators are designed to produce high purity nitrogen by Pressure Swing Adsorption (PSA) Technology.

The pre-treated air is passes into a vessel filled with Carbon Molecular Sieve (CMS) where the oxygen is adsorbed preferentially in the CMS pores, so that nitrogen comes out as a product gas.

In this process one vessel is in process and simultaneously second goes in regeneration. Adsorption and desorption take place alternately at equal time intervals. This means that the continuous generation of nitrogen can be achieved and can be stored in to Nitrogen reservoir.

#### MODELS

GAS COMPOSITION	MS	CU-DX	PD-DX
Oxygen	0.01% to 5%	1 ppm	1 ppm to 3 ppm
Hydrogen	NIL	NIL	0.5% or more
Nitrogen	99.99 to 95%	99.9999%	Balance
Dew Point	(-) 40°C to (-) 60°C	(-) 40°C to (-) 80°C	(-) 40°C to (-) 80°C

### MEDICAL OXYGEN PLANT / PSA OXYGEN PLANT

PSA (Pressure Swing Adsorption) Technology is a revolution in Non-Cryogenic On site Oxygen Generation. Air has mainly Nitrogen & Oxygen and Oxygen is produced by adsorption of other gases over ZMS (Zeolite Molecular sieve) From the compressed air.





## REFRIGERATED AIR DRYER

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The simplest way of removing moisture from compressed air by reducing the temperature.

- Simple Non Cyclic Operation
- Low Operating cost
- Low Noise
- Zero purge loss
- PDP 3°C
- Environment Friendly Refrigerant



## HEATLESS DESICCANT DRYER

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The simplest way of removing moisture from compressed air by Desiccant.

- Simple Operation
- Easy to maintain
- Microprocessor based Controller
- Purge Saver
- No need of heater or cooler
- ADP of (-) 40°C can be easily achieved.



## INTERNALLY / EXTERNALLY

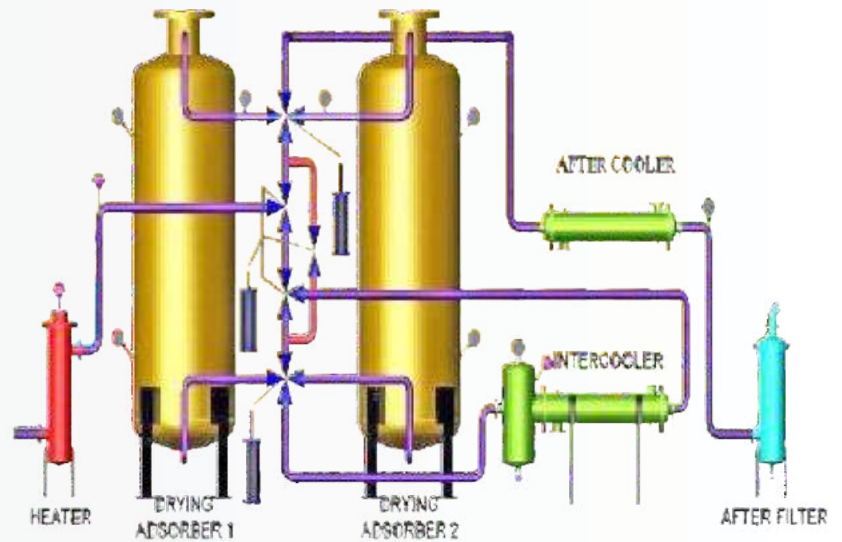
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This is an advance version of the heatless dryer where purge air loss is very low due to regeneration is achieved by dry air at low pressure and at high temperature.

- Dew point up to (-) 60 Deg C (atm) can be achieved.
- Longer Life of Desiccant
- Microprocessor based Controller with Display.
- No need of Cooling Water



## COMPRESSED AIR AND GAS DRYERS



### HEAT OF COMPRESSION AIR DRYER (HOC)

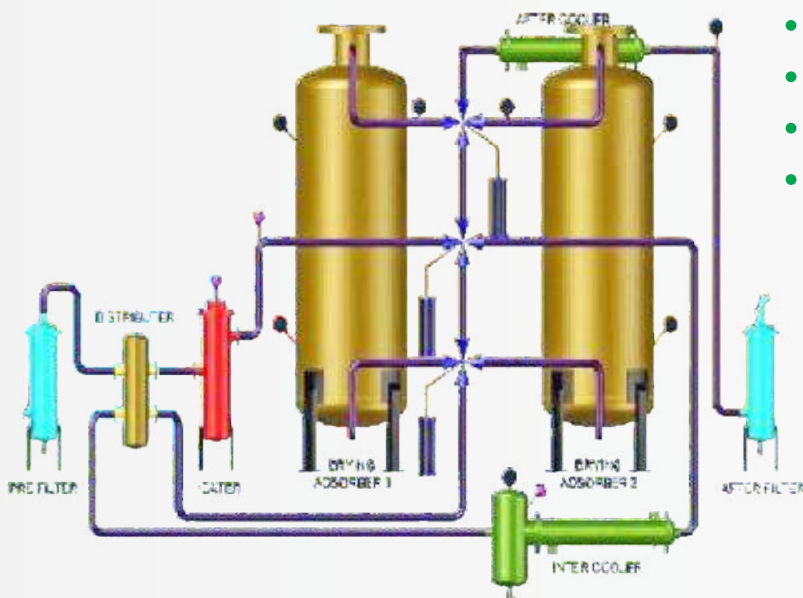
The No Purge Loss Type Air Dryer and easy to get desired dew point by removing moisture from compressed air.

- Excellent in desiccant drying
- Minimum Energy Loss
- Very Economical
- Zero purge loss
- ADP (-) 40°C can be easily achieved

### SPLIT FLOW NO PURGE LOSS AIR DRYER

The No Purge Loss Type Breakthrough Air Drying technology. Easy to get (-) 40 Deg. C dew point by removing moisture from compressed air.

- Advance desiccant type air dryer
- Minimum Energy Loss
- Used where inlet temperature is not high
- No Purge Loss
- ADP (-) 40°C can be easily achieve



# OUR VALUABLE CLIENTS



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