

We are engaged in fabricating low pressure cylinder filling plants which are known for its effectual functioning among our valued clients. These are highly acclaimed for its low maintenance cost and sturdy construction.

The oxygen plant of UBT series includes the following equipments:

1) Air compressor

- This is a highly advanced filter system with the steel structure and supports elements
- Dedust system with valve, collecting machine, spray equipment, automatic clean and control system
- Sends the pressure difference signals to PLC by pressure differential transmitter
- Instrument and electric control system

2) Air purification unit

Air Refrigerant compressor including special motor

- One condenser
- One evaporator / water cooler
- One set of Piping and valves
- Instrumentation
- Water Separator

Molecular Sieve Battery on skid

Complete with 2 nos. vessels, Reactivation heater complete with Molecular Sieve designed for process skid mounting.

Defrost Heater

Consist of heating coils and heating element 5 kW

Gas/Air Lines as per standard Layout

All pipelines for process air, Nitrogen and Oxygen line, HP line up to manifold along with short bend, elbow, socket and other necessary fitting as per our standard layout drawing

3) Air Separation Column (Cold Box):

Cryogenic type completed with support and connected pipes and internal

4) Turbo expander:

It is a rotary machine which runs on gas bearing and helps in providing the cooling for the liquification of air at minus 180 to (-) 190degrees centigrade including:

- Expansion turbine body
- Ventricular joint
- Inlet filter
- Silencer

- Bearing & sealed gas system
 1. Instrument gas filter
 2. ET bearing and sealed gas system

5) Oxygen Cylinder Filling System:

The oxygen is filled into cylinders by an oxygen filling SYSTEM (PUMP, BOOSTER)

6) Filling Mainfold Cylinder Filling Station for Filling Oxygen Gas:

Complete with control valves pressure gauge safety valve & pigtail connections points each.

7) Purity Testing Analyser:

Digital automatic purity analyzer

Below mentioned are its technical specifications:

Models	UBT SERIES (CYLINDER FILLING PLANT) UBT40, UBT80, 100, 120, 150 , 180, 200, 220, 250, 300, 350, 400, 500, 600, 800 & 1000.
Oxygen production	
Oxygen Output (cu. Mtr/hr)	40 TO 1000m3/hour
Oxygen Purity (%)	99.6%
Oxygen Pressure in cylinders	150 bar(kg/cm2)
Nitrogen production	
Nitrogen Pressure out of Column (bar)	5 bar(UPTO 150 BAR OPT.)
Nitrogen Output (cu. Mtr/hr)	40 to 1000 m3/hr.*
Nitrogen Purity (ppm optional)	99.9% to 99.99/3ppm opt.
Nitrogen filling in cylinders(optional)	150 bar(kg/cm2)
Type	
Operation Pressure (bar)	7 bar(kg/cm2)
Operation Period	24 hours -continuous
Air compressor	Rotary/screw
Expander	turbo
Downtime for repair	Very low due to screw compressor and low working pressure there are no leakages.
Air separation unit	High yield >99%
Exchanger efficiency(plate fin type)	Very high
Oxygen & nitrogen production	Simultaneous (no loss of oxygen)
Power	
Connected	AS PER CAPACITY
Consumed(abt.)	AS PER MODEL

Specific power per m3 of oxygen	UPTO 0.6 UNITS DEPENDING ON CAPACITY
Specific power per m3 of oxygen +nitrogen(pure)	0.4kwh(units)
Voltage 3 phase**	380-415 50/60 hz