



Air Separation Unit - 2100 TPD

Capacity: 2100 TPD

Process Information: Air separation unit commissioned in 1997 to produce pressured oxygen and nitrogen gas, and liquid nitrogen products from ambient air

Major Equipment:

- (4) Centrifugal electric-motor-driven compressors
- Air purification system
- Cryogenic equipment consisting of distillation columns, heat exchangers, and expansion turbines
- (4) Adsorber vessels
- Liquid nitrogen storage tanks and associated ambient air vaporization equipment
- Electrical switch gear and motor starting equipment
- High-pressure and low-pressure columns

Brief Plant Description

Used air separation unit built by Air Products & Chemicals and commissioned in 1997 to produce pressured oxygen and nitrogen gas, and liquid nitrogen products from ambient Air. The processes include (1) Air Compressor and purification, (2) liquefaction using expansion turbine refrigeration, (3) separation of the liquid products by cryogenic distillation, (4) storage of liquid nitrogen, (5) vaporization of oxygen and nitrogen to gases, followed by Compressor to meet gasifier, combustion turbine, acid plant, blanketing, and purging requirements. The ASU generated gaseous oxygen (2,100 tons/day of oxygen, minimum purity 95%), gaseous nitrogen (6,000 tons/day of nitrogen, minimum purity 98%) and high-pressure gaseous nitrogen (400 tons/day, minimum purity 99.99%). The guaranteed maximum utility consumption for the ASU is as follows: power 54,535 KW, cooling water flow 17,340 GPM, LP Steam flow 7,000 lbs/hr

**For more
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