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### **50 TON PER DAY OXYGEN PLANT**

Design: Linde (BOC)  
Plant Built – 1986  
Plant startup date: 1992  
Plant shut down - 1999  
Capacity: 50 T/D O<sub>2</sub> gas and 2-3 T/D Liquid O<sub>2</sub>  
Purity: 99.8% oxygen (Higher purity can be achieved at a lower production rate)  
Also Produces N<sub>2</sub> Gas with 1.8 ppm (max) O<sub>2</sub> in N<sub>2</sub>.

### **MAJOR EQUIPMENT**

1. Ingersoll Rand, Centec, Model 2ACII, 3-stage Air Compressor. Completely skid mounted with inter and after coolers, instrument control panel with Bentley Nevada vibration monitor. Driven by GE 1000 HP, synchronizing motor
2. Rotoflow Turbo-expander. Model No. 20-3E7C. S. No. 19801. 2344 Lbs./Hour capacity.
3. Cold Box with low pressure and high pressure vessel and main heat exchangers inside.
4. Rix oxygen compressor, Model No. 2JS2BG-300SP4. Glycol cooling system. Skid mounted with instruments and control valves.
5. Includes piping, valves, control valves, switching vales, etc.
6. No storage tanks, utilities and control system included.

### **OPERATING DATA**

a.	<u>Power Consumption.</u>	
	Air compressor	741 kW
	Oxygen compressor	471
	Cooling tower pumps	21
	Cooling tower fans	26
	Glycol pumps	6.4
	ET. Lo pumps	1.5

	Total	1266.9 kW	
b.	<u>Expander Performance.</u>	<u>Operation</u>	<u>Design</u>
	Pressure In, psia	80.23	88.48
	Temp in, °F	-144	-144
	Btu/Hour	36167	50,391
	Flow, Lbs./hour	2427	2344
c.	<u>Air Compressor</u>	<u>Operation</u>	<u>Design</u>
	Flow, Lbs/hour (wet)	21,098	20,470
	Flow, Lbs/hour (Dry)	20,700	20,201
	Discharge pressure, psia	92.43	97
	kW	741	718.6

Includes all available plant drawings, manuals and other technical information