



Carbon Dioxide Liquefaction Plant - 150 STPD

Capacity: 150 STPD

Raw Materials: Carbon Dioxide

Process Information: The plant is designed to purify low-purity carbon dioxide to 99.99% (beverage grade) and liquefy the pure CO₂.

Major Equipment

- Gas-Gas Cooler, 3 pcs, plant E-100
- CO₂ Precooler and Precooler Knockout Drum
- CO₂ Dryer Regeneration Gas Heater
- CO₂ Booster Compressor Oil Separator
- CO₂ Intercooler
- Guard Adsorber Dust Filter
- CO₂ High Stage Compressor Oil Separator
- CO₂ Final Oil Separator, CO₂ Sulfur Scrubber
- CO₂ High and Low Temperature Aftercooler
- CO₂ Aftercooler and Aftercooler Knock Out Drum
- CO₂ After Cooler Oil Separator
- CO₂ Regeneration Gas Exchanger
- CO₂ Dryers and CO₂ Reboiler
- CO₂ Stripping Column
- CO₂ Vent Condenser
- CO₂ Condenser and Subcooler
- CO₂ Booster Compressor, CO₂ High Stage Compressor
- (2) 350 Tons Liquid CO₂ Storage Tanks

Brief Plant Description

Used 150 STPD Carbon dioxide liquefaction plant including CO₂ compression, purification and liquefaction units as well as ammonia refrigeration system. Designed by SALOF. Inlet CO₂ feed gas contains 97.53% of CO₂, 2.44% of H₂O and 0.03% of N₂, at pressure of 4.4 PSIG and temperature of 105 °F. A booster increases the gas stream pressure to 300 PSIG through 2-stage compression. After a series of filters and dryers, the gas is liquefied into beverage-grade liquid CO₂ (99.99% purity). The plant is skid-mounted type. All the major process equipment is inside a building, maintained in good condition. Full technical documentation is available. Also available are two liquid CO₂ storage tanks (700 tons).

**For more
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