

Capacity: 60 MM SCFD

Raw Materials: Natural Gas Feed

End Products: Sweetened Gas Feed

Equipment List

- Ucarsol Contactor
- Benfield Contactor
- Benfield Regenerator
- 1st Stage Wash Tower
- Overhead Knock-out Drum
- Solvent Flash Tank
- Reflux Accumulator
- Solvent Drain Sump
- Solution Filter
- Sump Filter
- Solution Pumps
- Reflux Pumps
- Sump Pump
- Overhead Condenser
- Gas/Gas Exchanger
- Regenerator Reboiler
- Lo Heat Reboiler

60 MMSCFD Low Heat Benfield Plant



BRIEF PLANT DESCRIPTION

Phoenix Equipment currently has for sale a complete 60 MM SCFD Benfield Lo Heat process system. The Benfield Lo Heat process is designed to treat 60MM SCFD of incoming gas with a hot 35% potassium carbonate solution to remove the remaining CO₂ from an upstream Ucarsol process. This process removes CO₂ down to a 1.2 mol % level. The incoming gas is treated by 2,770 gpm of 35% potassium carbonate at 218 degF. The advantage of the Benfield Lo Heat process over an amine process is the lowest possible energy consumption by requiring approximately 50% less duty than a typical amine process.

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