



Acid Gas Glycol Dehydration Package

COMPASS MODEL NO: GLYCOL DEHYDRATOR

- Application:** Acid Gas Dehydration
- Location:** 07-35-67-07 W6M
- Customer Objective:** Acid gas injection from a new plant into a high pressure, sour, dry, gathering pipeline to be converted to pure sulphur at an alternate location. Target acid gas water content much lower than normal to suit pipeline operating conditions.
- Design Challenges:**
- Allowable outlet content of 4 lbs/MMSCFD which is extremely low relative to saturation.
 - Purification of inlet gas and glycol.
 - Corrosion control.
 - Minimize and control fugitive- and operator-induced emissions.
- Compass Solution:**
- Packed stripping column with 2-3 stages, hot stripping gas, maximum reboiler temperature, elevated circulation rate.
 - 16 tray contactor with gas and liquid distribution and mist elimination.
 - Fine filtration of inlet gas and rich glycol.
 - 316/316L SS material throughout.
 - Flange connections throughout, instrument isolation and vent throughout.

Major Equipment Specifications

Vessels:

- 20" OD S/S inlet coalescer
- 36" contactor with 16 high capacity valve trays
- 30" OD glycol flash vessel
- 26" OD glycol carbon filter
- 10" OD glycol particle filter

Exchangers:

- 0.42 MMBTU duty, BEM gas/glycol exchanger
- 0.65 MMBTU duty, BEU lean/rich exchanger

Regenerator:

- 48" OD reboiler
- 30" OD accumulator
- 16" OD still column
- 10" OD stripping column
- 14" OD, 1.2 MM Btu/hr natural gas fired flame arrested fire-tube

Other Features:

- (2) 100% 10 HP Rotary Glycol Charge Pumps, 8 USGPM @ 600 psig discharge pressure
- Lean glycol cooler, 0.11 MMBTU/hr, aerial type with 24" fan

Control Panel:

Profire 2100 BMS

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