

KOCKEN

SISTEMAS DE ENERGIA INC.

TEG GAS DEHYDRATION



When gas is to be transported for long distances in pipelines, consideration must be given to the control of the formation of hydrates in the transmission system. To prevent formation of said hydrates, it is necessary to control the Water Dewpoint at a temperature below all conceivable operating temperatures. KOCKEN Sistemas de Energia Inc. offers a TEG Gas Dehydration Systems that can achieve water dewpoint depressions as high as 180F.

The glycol gas dehydrator design employs a contactor to provide intimate contact between the moisture laden natural gas and the dry glycol desiccant. The glycol regenerator consists of a reboiler, still column, stripping column and surge tank and is equipped with a natural gas fueled flame arrested burner. The glycol pump is typically a glycol-gas powered unit that utilizes energy from the high pressure rich glycol along with a small amount of high pressure gas to circulate the lean glycol.

All KOCKEN TEG Gas Dehydration Units are constructed according to the API 12GDU Specification for Glycol-Type Gas Dehydration Units, GPSA Section 20, ASME Section VIII, Division 1, and applicable Industry Codes and Standards unless stipulated otherwise.



OPTIONS

- 3-Phase Glycol Flash Separator for reduced TEG losses.
- 2-Phase Fuel Gas Scrubber.
- 3rd Phase Controls on TEG Contactor.
- Particulate & Carbon Filtration.
- Standby and electric pump(s).

ENHANCED PERFORMANCE

- Standard Design: 4#/MMSCF water content in outlet gas with lean TEG purity of 99.7%.
- Reflux coil incorporated in standard design for reduced TEG losses.
- High dewpoint depression units w/ water content in outlet gas as low 10ppm and TEG purities in excess of 99.99%.
- Azeotropic distillation for increased TEG purity with no stripping gas, decreased emissions, and lower TEG losses.



DESIGN PARAMETERS

Operating Pressure

Operating Temperature

Flow of Gas

Gas Molecular Weight

Gas Outlet Spec

Presence of H₂S / CO₂

Trayed or Packed Tower

Pump Preference

Electronic or Pnuematic

Emissions Requirement

APPLYING WORLD CLASS TECHNOLOGIES IN PURSUIT OF SUPERIOR EFFICIENCY

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