

Glycol Dehydration



Water vapor can be removed from gas streams by glycol absorption in a contactor tower to reduce the water dewpoint to pipeline specification. The water rich glycol is then regenerated with heat and depending on required purity, sparging or stripping gas.

Maloney Industries' glycol dehydration systems typically consist of an absorber, gas/glycol exchanger, reboiler, accumulator, still column, lean/rich glycol exchanger, flash tank, filter, and circulation pumps. The absorber is designed to use either bubble cap trays, valve trays, or structured packing for gas/glycol contacting.

Maloney has supplied TEG gas dehydration systems for a wide range of operating pressures, temperatures and gas compositions with flowrates as high as 2.5 Billion SCF/d. Where gas streams include hydrocarbon condensate a condensate conditioner can be added to the dehydration process to lower water content in the liquid stream as well.

There are over 200 Maloney designed and manufactured glycol dehydration systems installed around the world. Maloney's designs have proven to be reliable, cost competitive and user friendly.



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