

**Glycol Contactor
Structured Packing
Reduces Capital Cost and
Improves Capacity**

Customer: Gas Processing

Tower Name: Triethylene Glycol Contactor

Tower Diameter: 66" O.D. trayed Column vs 48" O.D. Packed Column

Mass Transfer Equipment: FLEXIPAC® 2Y HC® Structured Packing, Feed Pipe, Liquid Distributor, Packing Supports, and Inlet Deflector Baffle (V-Baffle).

Objective: Reduce column diameter, vessel height and total vessel installation weight while reducing glycol carryover and maximizing gas handling capacity.

| TEG Contactor Tower Conditions | | |
|--------------------------------|--------|---------|
| | Trayed | Packed |
| Column Diameter | 66" | 48" |
| Tray Number (actual) | 10 | 16' Bed |
| Shell Thickness | 3.5" | 2.125" |
| Overall Weight (lbs.) | 83,000 | 29,000 |
| Tan -Tan Length | 30 | 24 |

Solution: Koch-Glitsch, Inc. recommended the changes indicated in the sketch below.

Conclusion: Packed designs for Glycol Contactor towers can provide a more economical alternative than trays. Capacity gains in excess of 50% are not uncommon with equivalent, or improved dew point depressions.

