



# Condensate Stabilizer

COMPASS MODEL NO: PROCESS EQUIPMENT – REFLUXED STABILIZER

- Application:** Liquid product vapour pressure and composition control
- Objective:**
- Control top and bottom product vapour pressure and key component content to allow tank and bullet storage.
  - Offload existing de-ethanizer to allow more plant throughput.
  - Sweeten inlet liquid.
- Design Challenges:** Generate discrete product specifications at both tower top and bottom while condensing using air cooler. Eliminate hydrate formation on inlet level control.
- Compass Solution:** Reboiler and reflux system, cooling air temperature controlled condenser, inlet heater and feed/bottoms exchanger.
- Inlet Flowrate Capacity:** 2500 bbl/d (397 m3/d)
- Product Flowrates:**
- 257 bbl/d (41 m3/d) Propane/butane mix
  - 796 bbl/d (127 m3/d) Pentanes plus

## Major Equipment Specifications

### Vessels:

- 72" OD S/S vessel, Feed Drum
- 30" OD Stabilizer Tower with 30 valve trays
- 30" OD Reflux Drum

### Exchangers:

- 0.8 MM Btu/hr 'NEN' Feed Preheater (Hot Oil)
- 2.80 MM Btu/hr 'BKU' Tower Reboiler (Hot Oil)
- 0.545 MM Btu/hr 'NEN' Feed/ Bottoms Exchanger

### Product Cooler / Condenser:

AXH 96ZF Condenser/Product Cooler with hot air recirculation and heating coil.

### Other Features:

(2) 100% 5 HP Side Channel Reflux Pumps, Direct Drive with # 52 seal plan.

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