



Condensate Stabilizer

Compass Model No: PROCESS EQUIPMENT - LCS-7000-5.7 STABILIZER WITH EM50-VR8D/EM250-VR17HP

Application:

Liquid product vapour pressure and composition control.

Location:

Northeast, British Columbia

Customer Objective:

- Control bottom product vapour pressure and key component content to allow tank storage.
 Maximize liquid product recovery.
- Conserve operation uptime with major backup components.
- Vapour recovery and overhead gas compression.

Exchangers

- Dual 5.80 MM Btu/hr 'BKU' Tower Reboiler
- Dual 5.4 MM Btu/hr 10" OD x 40 ft 'NEN' Feed / Bottoms Exchanger

Compressors

- Vapour Recovery Stage RoFlo 8D driven by a 50 HP @ 1200 RPM TEFC motor
- Combined VRU/Overhead Gas Stage RoFlo 17HP driven by a 250 HP @ 900 RPM TEFC motor.

Product Cooler / Compressor Cooler

AXH 156ZF aerial cooler for stabilized product cooling and compressor cooling.

Other Features

REMvue 500 panel for compressor controls.

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Design Challenges:

- Effectively handle slugs, water, and other contaminants from upstream process equipment.
- Provide compression for both site storage tank vapours and overhead residue gas to recycle into main plant gas stream.
- Sparing capacity for major components subject to fouling.

Compass Solution:

- Feed drum with slug capacity and mechanical separation features to remove sediment and water.
- Split feed and tray count to optimize liquid products with capital cost.
- Compact and flexible compressors to gather vapours from tank storage and combine them with residue gas from tower. Each service individually controlled.
- Rotary vane compressor to effectively deal with gas at dew point.

Inlet Flowrate Capacity:

8,000 bbl/d (1272m3/d)

Product Flowrates:

- 7010 bbl/d (1163 m3/d) Pentanes plus (C5+) liquid product
- 0.24 MMSCFD (6.8 E3m3/d) tank vapours
- 1.21 MMSCFD (34.3 E3m3/d) tower residue vapour combined stream discharge pressure at 170 psig (1172 kPag).

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