



200 HP Acid Gas Pump Package

COMPASS MODEL NO: EM200-P-L-G3M

- Application:** Acid Gas Injection of Liquid H₂S/CO₂
- Location:** Wapiti Area (Alberta, Canada)
- Customer Objective:** Injection pressure of 95% H₂S & 5% CO₂ precluded the use of a 6-stage compressor due to condensing temperature on interstage. A 5-stage compressor was used, with the process being condensed and sub-cooled prior to the last pumping stage.
- Design Challenges::** A "seal-less" double diaphragm tri-plex pump was selected for this application. Maintaining correct NPSH requirements for the pump in this critical service, while minimizing costs through sub-cooling. Correctly designing the accumulator to work with the 5-stages of compression, and the last pumping stage.

Major Equipment Specifications

- Pump:**
LEWA G3M
- Drive:**
Baldor 200 HP, 480V/3Ph/60Hz,
10:1 VFD motor
- Air Cooler:**
AXH 108AEF condenser/sub-cooler
- Control Panel:**
Spartan Allen-Bradley MicroLogix
PLC processor
- Other Features:**
Fully automated controls for minimal
operator interface due to the nature of
the process

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