



## 40 HP High Sour Dehydrator Tail Gas Reciprocating Compressor Package (Custom Unit)

COMPASS MODEL NO: EM40-RAA2

<b>Application:</b>	Dehydrator Tail Gas Compressor
<b>Location:</b>	Northern Alberta
<b>Customer Objective:</b>	The customers dehydrator tail gas vapours exceeded the site H <sub>2</sub> S limits. Compression was required to dispose of vapour via injection @ 500 psig
<b>Design Challenges::</b>	Acid gas composition 60% H <sub>2</sub> S, 30% CO <sub>2</sub> , 10% H <sub>2</sub> O
<b>Compass Solution:</b>	Compass constructed a custom 3-stage, electric drive, acid gas VRU compression package. Due to the H <sub>2</sub> S and CO <sub>2</sub> levels we incorporated our acid gas injection standards which includes full stainless steel process construction.

### Major Equipment Specifications

**Compressor:**

Ariel JGA/2 complete with (1) 6.500" M, (1) 6.125" JG-CE & (1) 3.375" JG-HE cylinders

**Drive:**

Toshiba 40 HP electric motor, 460 V / 3 PH / 60 Hz

**Air Cooler:**

Air-X 36VI induced draft cooler assembly (316L SS sections)

**Control Panel:**

Allen Bradley – Compact Logix PLC control assembly

**Other Features:**

Full stainless steel weld package (vessels, piping, vales and instrumentation)

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