



800 HP Acid Gas Compressor Package

Application:	Acid Gas Compression
Location:	West Texas, United States
Customer Objective:	A warm weather design for operation in west Texas.
Design Challenges:	Sour natural gas composition <38% CO ₂ and <54% H ₂ S with ambient temperatures of 105° F
Compass Solution:	Compass constructed a custom 5-stage, acid gas compressor package with an electric motor. This package was required to take waste gas from an amine plant to a reinjection well. Interconnecting piping was installed on a separate module for easy installation in the field.

Major Equipment Specifications

Compressor
Ariel JGR/4, 5 Stage

Drive
NIIDEC, 800 HP electric motor, 4160 V / 3 PH / 60 Hz

Air Cooler
AXH 132ZF electric motor-driven with stainless steel process cooler headers

Control Panel
Murphy Centurion C5 control stainless steel panel complete with accessories and touchscreen HMI

- Other Features**
- Stainless steel process vessels, piping, valves, and instrumentation.
 - 10 PSIG suction and 1550 PSIG discharge pressure