



1500 HP Inlet Sour Gas Compressor Package

Application:	Sour Gas Inlet Compression
Location:	West Texas, United States
Customer Objective:	A warm weather design for operation in west Texas.
Design Challenges:	Sour natural gas composition <7% CO ₂ and <10% H ₂ S with ambient temperatures of 105° F.
Compass Solution:	Compass constructed a custom 3-stage, inlet sour gas compressor package with an electric motor. This package was required to take low pressure gas to feed an amine plant that would treat and strip out the CO ₂ and H ₂ S.

The design was a modular approach so that the customer could easily install the completed package into the field with zero fugitive emissions.

Major Equipment Specifications

Compressor
Ariel KBK/4, 3 Stage

Drive
TECO-Westinghouse, 1500 HP electric motor, 4160 V / 3 PH / 60 Hz

Air Cooler
AXH 144ZF 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.

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