



2250 HP, 4-Throw, 3-Stage, Reciprocating Compressor Package with Inlet Separator and Condensate Pump

Compass Model No: WK2250-RAK4-3

Application: Two (2) Booster Compressors each c/w Inlet Separation and Condensate Pump

Location: Western Desert, Egypt

Customer Objective: Low pressure gas gathering for two separate fields. Free water and condensate separated ahead of compression and pumped downstream of compression.

Design Challenges:

- Water salinity required the use of Super Duplex Stainless Steel and Hastalloy C-276 materials
- Internal coating required for Inlet Separator
- High level of documentation requirements
- IEC electrical cable & tray c/w barrier glands and cable glands
- Redundant ControlLogix control panel
- Air compressor c/w receiver designed for air start of engine

Compass Solution: We relied on the expertise of our compression and process teams, and provided our client with a totally unique, fully-integrated, compression and process solution to meet their complex and specific product, and delivery requirements.

Major Equipment Specifications

Compressor:

Ariel JGK/4 3-Stage c/w:

- (2) 20 1/8K:10 1st stage cylinders
- (1) 20 1/8K:10 2nd stage cylinder
- (1) 14 1/8K: 3rd stage cylinder

Driver:

Waukesha P9394GSI 2250 bhp

Air Cooler:

AXH 132FF3 forced draft cooler, jack-shaft drive

Control Panel:

Allen Bradley ControlLogix PLC Control System (Redundant)

Other Features:

- 60" I/D x 10' S/S Inlet Separator c/w internal coating
- API 610 Sundyne condensate pump c/w Plan 53B fluid & nitrogen charging system
- Champion air compressor package c/w wet air receiver, filters, dryer and a Compass built 48" OD x 10' S/S dry air receiver
- Fire & Gas detection and alarm system