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BOIL-OFF GAS & COMPRESSION

CLIENT



Project: Sadara Project

Location: Jubail II, Saudi Arabia

Delivery: 2015

AUSTRALIA

Suite 4a, 5 Bridge Street
Coniston, NSW, 2500 Australia
Tel: +612.4249.4000
info@reiprocess.com
www.reiprocess.com

UAE

Areco Tower, Office No. 110/111
Dubai Investment Park - Dubai, UAE
Tel: +971.4885.0099
info@reiprocess.com
www.reiprocess.com





LINDE, SADARA PROJECT, JUBAIL II, SAUDI ARABIA

The HyCO / Ammonia Industrial Gases Plant includes an ammonia storage tank. REI provided a refrigeration system to collect and liquefy the ammonia boil-off from this storage tank. Reliability is crucial as the facility is dependent on the boil-off unit to ensure the storage tank does not over pressurize and release ammonia to the atmosphere.

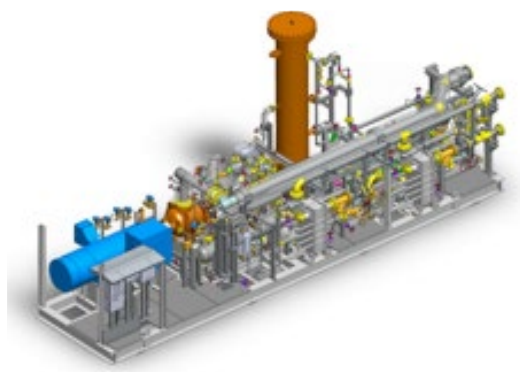
- Duty 605kg/hr plus flash gas at atmospheric pressure -33deg.C
- Howden 204-193 cast steel compressor driven by 224kW motor
- Water cooled shell & tube condenser
- 2 x 100% water cooled plate & frame oil coolers
- Closed fully welded SS316 plate economiser
- Automatic purger to expel non-condensables
- Oil carryover <5 ppm (w/w)

All exchangers, pressure vessels and PSVs are supplied with ASME U-stamps.

An automatic purger system is included to expel non-condensable gases that enter the storage tank. An ammonia vapour stream containing non-condensables is cooled in a heat exchanger to recover as much ammonia as possible whilst expelling the non-condensable gases. This method minimises the ammonia loss to flare.

The compressor includes a double mechanical shaft seal with API682 plan 75 style seal system.

All skid mounted equipment is certified to NEC standards for a Zone 2 hazardous area. Instruments are SIL2 rated.



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