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PROPANE BOIL-OFF & REFRIGERATION

CLIENT



شركة الغاز العمانية ش.م.ع.م.
OMAN GAS COMPANY S.A.O.C

Petrofac 

Project: Salah LPG Extraction

Location: Oman, Onshore

Delivery: 2019

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OMAN GAS COMPANY, SALALAH LPG PLANT, OMAN

Boil off gas from refrigerated tank is compressed and send to the refrigeration package for condensation. Liquid propane from the LPG plant is also sent to the refrigeration package for cooling before transfer to the propane storage tank. The refrigeration unit uses propane as refrigerant to provide the required cooling effect.

- 2282 kW liquefying Propane at -20°C and 723 kW liquid propane subcooling to $+13^{\circ}\text{C}$
- Single-stage screw compressor, Howden WRViT365
- Shell & tube oil cooler and evaporator (design)
- open flash economiser
- air-cooled fin-fan condenser

Due to low starting current requirements, the start up is done by VFD which then switches over to DOL. VFD and switchgear and the switchover logic included in the scope.

String test at fabrication shop completed successfully for one compressor skid including lube oil system, VFD, bypass gear using temporary MV/LV diesel generators, water chiller for oil cooling, temporary PLC/vibration monitoring system and switch room. Packages are delivered to Salalah with potential commissioning in Mar-2020.



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