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PROPYLENE REFRIGERATION

CLIENT



Project: New Pitch Gasification Project
Location: Singapore, Onshore
Delivery: 2020

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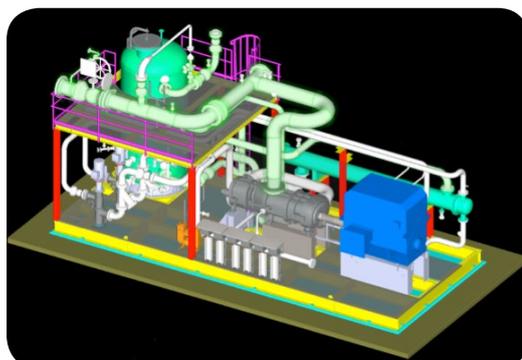
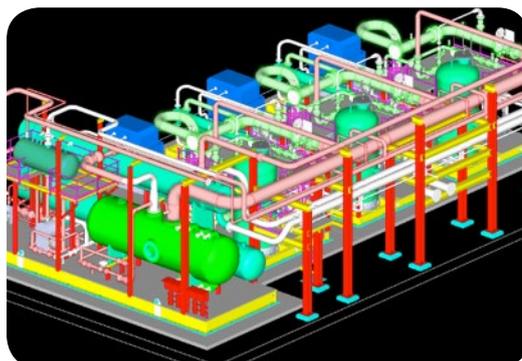
LINDE, NEW PITCH GASIFICATION PROJECT, SINGAPORE

The Linde Gas New Pitch Gasification Plant upgrades heavy residue feedstock from the nearby ExxonMobil plant to produce and supply hydrogen and synthesis gas. The refrigeration unit will provide cooling at multiple temperatures for various process streams within the plant and is an integral part of the overall operation of the facility, the single largest ever by Linde Engineering.

- 5075kW refrigeration capacity at -40°C
- 3 x 50% Two-stage screw compressors, Mycom 4032LLLC-MBL
- Skid based design with integral lube oil system
- Closed plate exchanger economiser
- Water-cooled shell and tube condenser & oil coolers

The complete package is installed outdoors in a humid marine salt laden environment. The compressors, lube oil system, heat exchangers and pressure vessels are all skid mounted to reduce the overall footprint and reduce installation cost, time and complexity. Stringent sound level specifications apply with a requirement of less than 85 dB(A). To achieve this sound level, REI has designed acoustic attenuation, not only for the oil separators and pipework but also ventilated enclosures containing the compressors and 2350kW water cooled induction motors.

The system operates at all load variations all year round, with full turndown from 100% to 0% capacity with the in-built functionality to verify compressor operation after maintenance without impacting the in-service compressors. The package is designed for 4 years operation between maintenance intervals.



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