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AMMONIA REFRIGERATION

CLIENT



Project: SAMAC MMA/PMMA Project

Location: Onshore, Saudi Arabia

Delivery: 2015

AUSTRALIA

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SAMAC MMA/PMMA PROJECT, SAUDI ARABIA

The Saudi Methacrylates Company requires cooling for the world's biggest MMA plant. The refrigeration unit cools a secondary glycol circuit which is used to maintain the temperature of the MMA tank.

- 4600kW cooling MMA at -10°C
- economised screw compressors, Howden 3 x 255-193 and 3 x 255-110 with tilt pad thrust bearings
- flooded thermosyphon plate evaporators cools glycol that in turn cools an MMA tank
- open flash economiser/receiver
- water-cooled semi-welded condenser & oil cooler
- The unit operates in the industrial complex in Al Jubail at extremely high ambient temperatures.

Refrigerant (ammonia) inventory is minimized by combining the receiver and flash economiser into one vessel. This minimizes the footprint and enables each of the six units to be packaged on transportable skids, reducing installation, cost, time and complexity. Compressors, pumps, motors, filters, instruments and vibration monitoring equipment were carefully selected to maximise the commonality of spares. Dual mechanical shaft seals are included to eliminate ammonia emissions.



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