

Case Study



Positive displacement Blowers Units

Shell / 02 Pearl GTL

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Ras Laffan City–Qatar C8 ETL (Effluent treatment plant)

Ten Hibon® Positive Displacement Blowers SNH820 enclosed packages and four SNH 809 (Air Scouring blowers) compressing atmospheric air to feed SUFmembranes on effluent treatment in a NLG plant.

Customer Overview

Pearl GTL is the largest energy project ever launched in the State of Qatar, in terms of total investments. It consists of two offshore platforms 60 kilometres off the Qatar coast, connected by pipeline to the largest Gas to Liquids plant ever built, located in Ras Laffan Industrial City.

Challenge

Membrane technology is a separation technology. It works without the addition of chemicals. The membrane separation process is based on the presence of semi permeable membranes. The principle is quite simple: the membrane acts as a very specific filter that will let water flow through, while it catches suspended solids and other substances.

"Low pressure" solution are used for the feeding or for the cleaning of these membranes.



Result

Air Scouring blowers	SNH 820	SNH 809
Gas	Air	Air
Differential pressure :	400 mbar	400 mbar
Flow :	3481 Nm ³ /h	1433 Nm ³ /h
Absorbed Power	59.4 kW	22.9 kW
Max Speed:	2975 RPM	2962 RPM
Outlet Temperature:	82°C	95°C

Detail

Marine environment / Wind borne dust and sandstorms / refinery environment with high solar radiation.



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