

Smaller and lighter – Robust – Reliable



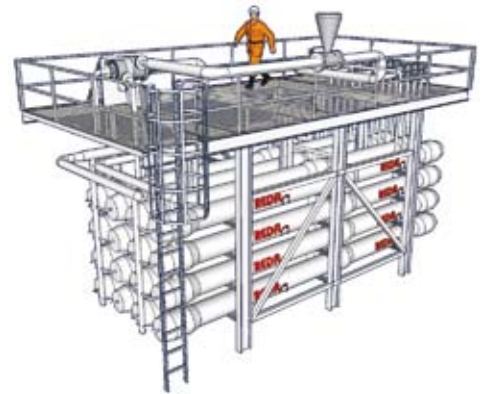
Clever membranes for rough operating conditions

Tailor-made desalination

The technology developed for sulphate elimination in seawater on offshore oil and gas platforms, patented by H2Oil & Gas is now ready for market introduction. The REDft™ technology is a completely new method for use of reverse osmosis and nanofiltration membranes. Systems based on this technology are considerably smaller and lighter than systems which use conventional technologies.

In the REDft™ process, microfiltration and ultrafiltration membranes are integrated into the high-pressure reverse osmosis or nanofiltration modules. By suitable selection of the pre-treatment methods and membranes, seawater of varying qualities can be used to produce water of the quality needed for injection into the reservoir.

In some cases, nanofiltration membranes are used for production of a salty permeate which contains a small amount of sulphate, while reverse osmosis membranes are the choice for cases where a lower total salt content is required. This flexibility is unique among the existing technologies and can also reduce the costs from the very start if it is optimally configured.



The REDft™ technology offers enormous benefits. It requires up to 40 per cent less space and is about 30 per cent lighter – important considerations on an offshore platform. Its robustness also makes it ideal for offshore use, where absolute reliability is a prerequisite. All components used in this process, including the membranes, are tried and tested. These benefits mean that the technology has been well received by the oil and gas market.

„The feedback from our customers is very positive so we are aiming for the first commercial application of this technology before the end of the year. We originally developed the REDft™ technology for the offshore oil and gas market, but the municipal market has also shown a great interest in it. We are therefore planning to present it to this market at the same time.“

Scott Barrie, Managing Director

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