

Specialty RO System Supplier

Market Application Publication



Customer

One of the world's largest Oil Field Services companies reached out to Parker Water Purification for help with their ailing Seawater Reverse Osmosis Systems. The unit manufactured by specialty RO system supplier and installed on board a 135m Pipe Laying Barge was having difficulties keeping up with the production volume and required water quality. In addition, the unit required constant maintenance and repairs to continue operating. Availability of potable water for crew consumption, as well as, sanitary use is vital for

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Parker's high rejection and low energy sea water membranes

such vessels which operate in harsh environments and shallow waters for an extended amounts of time.

Problem

Replacing the existing RO unit with a complete new system was not an option, due to budget constraints driven by the low price of crude. Furthermore, the existing unit occupies considerable space in an already tightly packed engine room. Therefore, the retrofit solution had to be economical by making use of as much of the existing equipment as possible, while maintaining a compact

footprint and increasing the system's performance and reliability.

Solution

Thanks to Parker's highly trained Global Support Team were able to quickly dispatch a Service Engineer to gain a better understanding of the site conditions and take inventory of existing equipment that could be salvaged. Our Service Support team worked closely with the Applications and Engineering teams to develop a simple, compact and cost effective retrofit kit for our customer. At the



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core of the solution was the re-engineering of the existing process including the use of Parker's high rejection and low energy sea water membranes and optimizing the flow characteristics of the existing high pressure pump to improve membrane efficiency. Instrumentation

and other critical components were updated according to the new design.

Outcome

Production volume was successfully increased by 25% while significantly improving the produced water quality. The retrofit was easy to install

and compact enough to fit into the existing space without any major modifications. Customer was very happy to have a reliable, safe and cost effective system producing potable water on demand. As a result the customer has requested retrofit kits for other assets.



Parker Hannifin Corporation

We manufacture highly engineered components and systems used around the world for various applications. Parker products are installed and operating in many industries such as Power generation, Aerospace, Oil and Gas, Beverage Production, Marine, Military, Agriculture, Construction, and other industrial applications.



Food



Water



Energy



Transportation



Defense



Environment



Infrastructure



Life Sciences

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