

Application story



Reverse Osmosis for Offshore Platforms (1)

Location	USA	Hydra-Cell model	G10XKSTHFEMB / G35XKSTHFEMB
Type of application	Reverse Osmosis for Offshore Platforms (1)	Flow rate	G10 Up to 30 l/min (8 gpm) / G35 Up to 140 l/m (37 gpm)
Liquid	Seawater	Pressure	G10 Up to 70 bar (1000 psi) / G35 Up to 100 bar (1450 psi)
Application details	Since 2004 this company, which manufactures Reverse Osmosis units primarily for the offshore industry in the Gulf of Mexico, has been progressively replacing the large high-head, multi-stage centrifugal pumps previously installed in its equipment and fitting compact seal-less Hydra-Cell G35 or G10 pumps. The company leases both large and small RO units to operators of offshore oil platforms, enabling them to produce fresh water from seawater. Converting to Hydra-Cell has slashed repair costs, reduced callouts and help bring the manufacturer's whole servicing operation under control. Without fresh water - used for everything from drinking and bathing to mixing in drilling mud - the rigs cannot operate. Platform operators have found it well worthwhile in terms of cost and peace of mind to hire the equipment and take up service contracts with the manufacturer. The extra outlay is usually far outweighed by the cost of hauling out fresh water. The rigs can be as far as 400km offshore. But for the RO manufacturer, responsible for keeping the RO systems running, it was a different story. Repair calls, mostly resulting from shaft and seal problems experienced by the centrifugal pumps, were mounting faster than they could be dealt with. And costs were high - in some cases as much as an entire new G35. With the Hydra-Cell pump fitted, the repair costs dropped by 75% and the pump could quickly be removed and exchanged if it needed service. Also there have been many fewer callouts. Service engineers who had scarcely had a day off in a year now get free weekends. Less stress all round, and lower payroll costs for the company. The RO company has established a regular replacement system, whereby a pump is routinely replaced after 3 years service, the last count, more than 50 Hydra-Cell G35s and 30 G10 pumps had been supplied to this customer - all in stainless steel.		
Advantages of Hydra-Cell pump on this application	Seal-less design, the ability to handle aggressive liquids with particles in suspension. Reliability.		

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