

Application story



Industrial Waste Water Treatment (2)

Location	India	Hydra-Cell model	G25 and G35
Type of application	Reverse Osmosis	Flow rate	50 l/min and 120 l/min
Liquid	Water (with High TDS)	Pressure	40 bar
Application details	The end user is a privately owned company in India and having 15+ manufacturing units in Gujarat. They are one of the leaders in manufacturing Chemicals, Pesticides and other intermediate chemicals. They are using Wanner Hydra-Cell pumps in their effluent treatment plant (ETP). In this application, waste water from a plant process is treated and recycled to use in other processes. The waste water has total dissolved solids (TDS) of up to 40,000. To remove the dissolved solids, the waste water is fed into membrane at high pressure (up to 60 bar and up to 50 degrees C) and a membrane separates the high TDS liquid into two parts. One part is called Permate which has low TDS and it can be reused for other processes and the other part is called Reject, this liquid is high in TDS and will be taken to an evaporator for disposal. The previous pumps used were CAT pumps but required regular and costly maintenance as they were unable to handle the properties of the high TDS and corrosive liquids.		
Advantages of Hydra-Cell pump on this application	Seal-less design ensures: • Reliable handling of liquids containing particles and corrosive liquids • Smooth and constant flow irrespective of pressure throughout the process • Minimal servicing requirement • Compact foot print		

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