

Application story



Nitric Acid Recovery by RO

Location	Hungary	Hydra-Cell model	G35XDSJNNEHB
Type of application	Nitric Acid Recovery by RO	Flow rate	Up to 100 l/min (26 gpm)
Liquid	Nitric Acid Ceramic Slurry	Pressure	55 bar (797 psi)
Application details	A manufacturer of electric light bulbs in Hungary uses hot nitric acid (HNO ₃) to dissolve the very small ceramic mandrels around which the bulb filaments are formed. As the nitric acid becomes dirty, it is cleaned by reverse osmosis, allowing it to be re-cycled. Hydra-Cell G35 pumps (two installed) deliver the highly corrosive hot acid to the RO membrane. As well as pumping this difficult medium at required pressure and temperatures up to 80°C, the G35 pumps have a particular advantage in their low level of pulsation, which helps to protect the membrane against mechanical damage.		
Advantages of Hydra-Cell pump on this application	Ability to handle hot corrosives. Pressure capability. Low pulsation.		

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