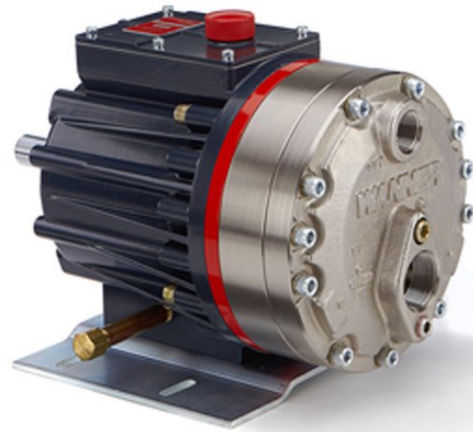


Application story


WANNER[™]
HYDRA-CELL[®] PRO
SEAL-LESS PUMP TECHNOLOGIES



Acid Reclaimed from Electro Machining Process

Location	USA	Hydra-Cell model	H25EFTGTTTTB
Type of application	Filtering Out Metal Fines (Membrane Technology)	Flow rate	75 l/min (20 gpm)
Liquid	Sulphuric Acid	Pressure	25 - 40 bar (360 - 580 psi)
Application details	In the precision drilling of 'curved profile' holes by means of electro machining, the conductivity of the acid changes as a result of metal fines created during the process. To eliminate these fines and reclaim the used acid it is processed by reverse osmosis. The original reclamation equipment incorporated multi-stage centrifugal pumps that could handle the pressure but were prone to rapid wear, leading to leakage and high repair costs. Seal-less Hydra-Cell pumps were not subject to these problems. Frequency and cost of maintenance and repairs were reduced and reliability increased. The potential for acid emissions was reduced. The process was able to work as it should, reducing consumption of sulphuric acid by 90% and eliminating pre-disposal treatment costs, while increasing machining productivity.		
Advantages of Hydra-Cell pump on this application	Seal-less design, with minimum of wear components. Tolerance of acid.		

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