

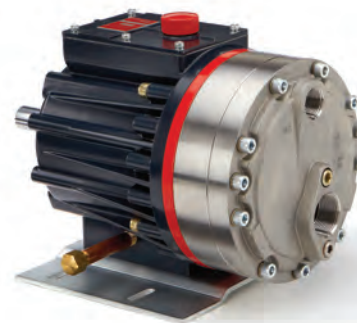
MACHINE TOOL COOLANT

Quick STUDY

Hydra-Cell
Seal-less Pumps®

www.Hydra-Cell.com

Location:	United States
Application:	Filtering out metal fines (membrane technology)
Media:	• Sulfuric acid
Model No.:	H25EFTGTTTTB
Flow Rate:	20 gpm (75 l/min)
Pressure:	360-580 psi (25-40 bar)
Hydra-Cell Advantages:	• Seal-less design, with minimum of wear components • Tolerance of acid



Acid Reclaimed from Electro Machining Process

In the precision drilling of curved profile holes by means of electrochemical 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 sulfuric acid by 90% and eliminating pre-disposal treatment costs, while increasing machining productivity.

Characteristics of Fluid Pumped:

☒ Contains Abrasives ☒ Corrosive ☒ Solids in Suspension ☐ High-temp. (>158°F/70°C) ☐ Non-lubricating ☐ High-viscosity (>500 cPs)