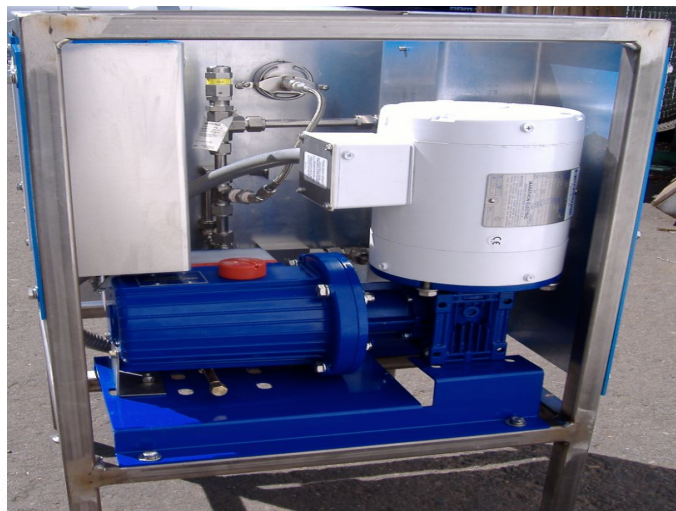


Application story



Polymer Injection for Water Treatment

Location	USA	Hydra-Cell model	P200NMTSSA05C
Type of application	Polymer Dosing	Flow rate	100 l/hr (26 gph)
Liquid	Polymer	Pressure	10 bar (145 psi)
Application details	This application is for an Industrial Waste Water Treatment Plant in the USA. The cationic polymer is used as a coagulant to neutralise the negative charge present in colloids. Once the heavier molecule attaches to waste in the liquid, it promotes the settling out of solids for primary and secondary clarification as well as sludge dewatering. The system incorporated P200 Hydra-Cell pumps. The polymer has a viscosity greater than 1,000 cPs and the pump needed to be able to handle that. The unit itself looks at the water flow rate and pressure as well as turbidity and other factors and adjusts the polymer flow accordingly. Hydra-Cell was chosen because of its ability to handle more viscous fluids, it's greater than usual turndown when coupled to an inverter duty motor and drive, its ability to break through the low to medium flow at high pressure barrier that many other pump technologies experience.		
Advantages of Hydra-Cell pump on this application	Hydra-Cell was chosen because of its ability to handle this viscous liquid and when coupled to a VFD, provide the turn-down range requested.		

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