

Application story



Membrane Filtration Pilot Plant (1)

Location	UK	Hydra-Cell model	G10XKSJHFEHB
Type of application	Membrane Filtration Pilot Plant (1)	Flow rate	Up to 30 l/min (7.9 gpm)
Liquid	Acids Caustic Milk	Pressure	15-60 bar (217-870 psi)
Application details	A versatile mobile membrane filtration pilot plant developed by UK hygienic fabrication specialist Axiom Process is helping customers run process evaluation trials across a wide spectrum of membrane technology. It enables trials to be carried out (on customer sites or at Axiom's Swansea facility) on process and waste stream applications utilising microfiltration, ultrafiltration, nanofiltration and reverse osmosis membrane technologies. In designing for a wide range of application, Axiom had to ensure that the performance of its pilot plant was not only reliable and accurate but also flexible. As a major dynamic component in the plant, the performance of the pump would be especially critical. The pump chosen to meet these requirements was the Hydra-Cell G10. Projects manager Steve Birkin explained that "we needed a pump that was able to give us a positive flow but operating at a range of pressures by using a variable speed drive or inverter, enabling us to run tests under different conditions for a variety of customer trials. "As we use the plant for nanofiltration as well as reverse osmosis, the ability to operate at 15 bar to 60 bar is essential. We also needed stainless steel wetted parts and as pulse-free an operation as we could get." Axiom's pilot plant range is in frequent demand for filtration trials by customers in the food, beverage and pharmaceutical industries.		
Advantages of Hydra-Cell pump on this application	Seal-less design. Simple, compact build. Easy controllability. Smooth low-pulse flow.		

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