



MEMBRANE FILTRATION TRIALS

Pilot trials ensure accurate representation of full-scale commercial processes, they are the most reliable way to determine separation performance, process viability, system design parameters and the operational economics of membrane filtration on liquid feed streams.

Axiom Process offers a complete support package for process investigation and optimisation under fully controlled conditions, ensuring accurate results. Our range of mobile pilot plants designed

for multiple filtration applications, coupled with our in-house laboratory and dedicated wet test facility provides a comprehensive research resource for companies considering the technology.



Membrane selection



System design and fabrication



Laboratory facilities

TYPICAL APPLICATIONS

- ✓ Water recovery & recycling
- ✓ Dairy fractionation
- ✓ Cell recovery
- ✓ Clarification
- ✓ Extract filtration
- ✓ Protein separation
- ✓ Dilute sugar stream concentration
- ✓ Dye stuff desalting and concentration
- ✓ Precursor purification
- ✓ Final filtration of bottled water
- ✓ Recovery of cleaning chemicals
- ✓ Enzyme concentration
- ✓ Purification and clarification of fruit juice

OUR SERVICES

- ✓ Trusted partner for the research and commercial development of innovative liquid filtration, product and process separation applications
- ✓ Experienced test engineers pinpoint performance characteristics, expose limitations and explore optimisation criteria for a wide range of liquid filtration solutions
- ✓ Detailed trials report with processing characteristics covering performance data and trial conclusions, together with representative samples for independent analysis
- ✓ Local and remote trial options with an engineer for the duration of a trial



Microfiltration / Ultrafiltration pilot plant

Axiom Process is one of the UK's leading process system manufacturers specialising in the design and build of crossflow membrane filtration systems utilising microfiltration, ultrafiltration, nanofiltration and reverse osmosis technologies.

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