



# WATER RECYCLING AND WASTE STREAM TREATMENT

**Axiom Process provides specialist expertise in the development of bespoke water recycling systems designed to reduce discharge volumes and potentially recover up to 95% of the waste water as re-useable clean water for many industrial applications.**

With increasing environmental concerns and rising costs there has never been a better time to discuss your requirements.

Axiom's water recycling and effluent treatment systems utilise membrane filtration technology, typically using a combination of Microfiltration, Ultrafiltration, Nanofiltration and Reverse Osmosis.

Microplastics, particulates, oils, grease, fats and many other constituents can be selectively separated from an effluent stream; often recovering valuable materials in the process. The treated water is crystal clear, 100% particle free and commercially sterile ready for immediate recycling.

The systems are versatile, effective and stable; often used as a direct replacement for chemical treatment processes or integrated with AD systems to simultaneously clarify the outflow, while improving biomass recovery and reactor efficiency.

## SYSTEM BENEFITS

- ✓ Mechanical separation ensures process stability
- ✓ Eliminates the need for chemical flocculants
- ✓ Produces commercially sterile crystal clear water for discharge or recycling
- ✓ Opportunity to separate and recover valuable resources from waste water
- ✓ Large reduction in effluent discharge volume
- ✓ Potential to recover heat energy from the effluent

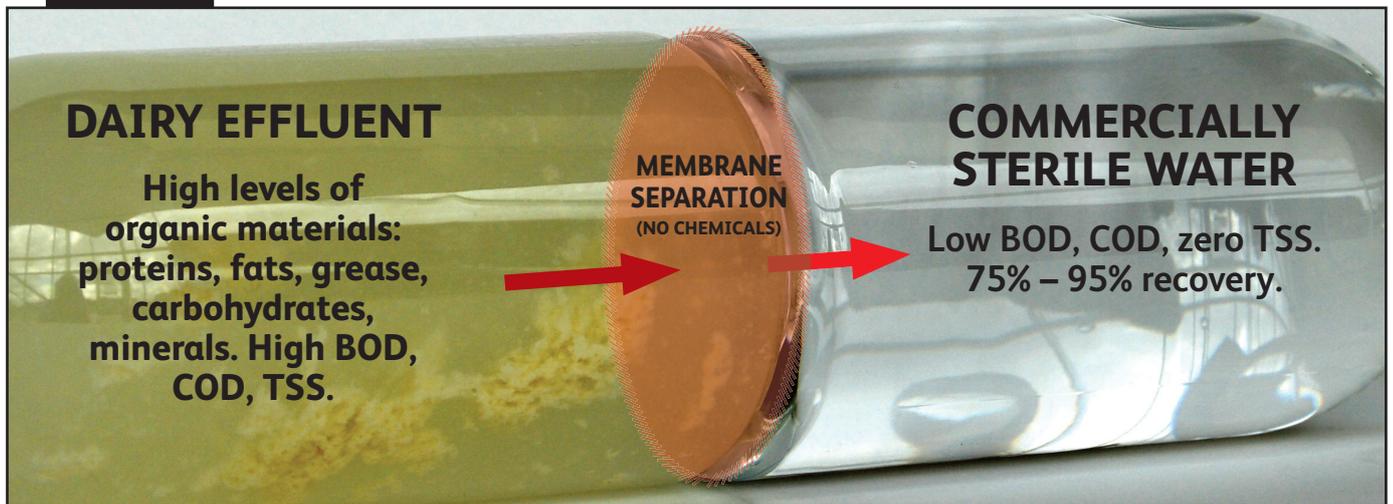
## SYSTEM DESIGN

- ✓ Optimised for the application
- ✓ Manual or Automatic operation
- ✓ Remote monitoring and performance checks
- ✓ Straightforward maintenance
- ✓ Small foot print
- ✓ Compliance with increasing legislative and recycling requirements
- ✓ Skid mounted, or containerised, easy to scale up and install



*Containerised systems for use on multiple sites*

### EXAMPLE



**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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