Water & Wastewater Treatment

Our range of water and wastewater treatment solutions are available in package, modular or bespoke designs to provide sustainable solutions for the effective removal of solids and emerging pollutants, including phosphorus, nitrates and pharmaceuticals.

We help our clients find innovative solutions to address the key challenges placed upon them, including tightening consents, population growth, water scarcity and resilience.

te-cyc™

te-cyc™ is a reduced footprint advanced cyclic activated sludge technology with a unique anaerobic selector design and operating cycle which encourages the growth of large macroflocs. The macroflocs produced have a high settlement rate and within them simultaneous nitrification and denitrification, and enhanced biological phosphorus removal occur all within in a single treatment stage.

The te-cyc™ process can be applied as a modular package plant or a fully bespoke design in the following applications:

- Growth schemes
- Effective solids removal
- Enhanced biological Phosphorus removal
- Simultaneous Nitrification / Denitrification
- Nutrient removal or removal of BOD5 / COD only
- Simultaneous sludge stabilisation
- Nitrification at very low temperatures
- Application with or without primary settlement

te-ro™

te-ro™ is a high efficiency reverse osmosis process, using semi-permeable membranes under pressure to separate and remove particles and contaminants from water for commercial, industrial and municipal applications.

Applications include demineralisation, process water, water treatment for re-use, mineral recovery and leachate treatment.

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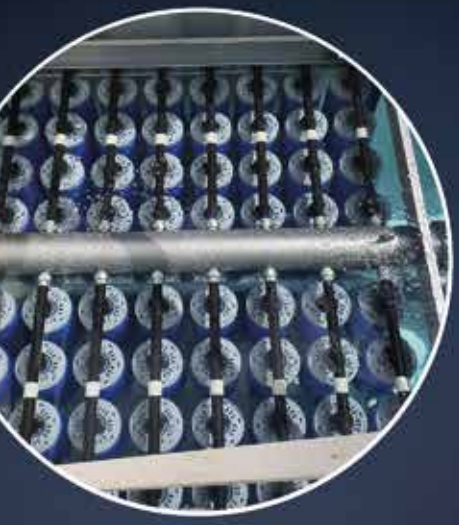
te-ion™

te-ion™ is an advanced oxidation process for the effective treatment of water and wastewater. The te-ion™ process is suitable for different treatment applications including treatment to suppress sludge bulking, removal of trace substances, colour and emerging pollutants, providing effective disinfection of water and wastewater.



te-mem™

te-mem™ is based upon the application of immersed organic hollow fibre membranes which are wrapped around a carrier inside a cartridge and arranged in bundles. The cartridge provides the required strength and protection for the hollow fibre membranes and allows the application of high pressure air scouring for high cleaning efficiency.

te-sewpas™

te-sewpas™ is a reliable, low cost and efficient air-lift desludging system for primary and final settlement tanks. Simplicity of operation and minimal operator intervention provides significant benefits compared to traditional manual desludging systems. The te-sewpas™ desludging equipment is a self contained unit which operates on the principle of an intermittent air lift.

te-saf™

te-saf™ is an established and proven treatment process for the reduction of BOD, Suspended Solids and Ammonia with the versatility to be utilised as a roughing filter, carbonaceous or nitrification stage of the wastewater treatment process.

Our te-saf™ technology comes in 4 standard sizes, treating a range of flow rates depending on biological demand.

te-mbbr™

The te-mbbr™ (Moving Bed Bioreactor) is a highly efficient biological treatment process based on conventional activated sludge treatment but incorporating a biofilm media. The biofilm media or carriers provide a large protected surface area to increase biological growth and enhance the removal of BOD, ammonia and nitrogen.

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