



Tertiary ultrafiltration for water reuse and discharge

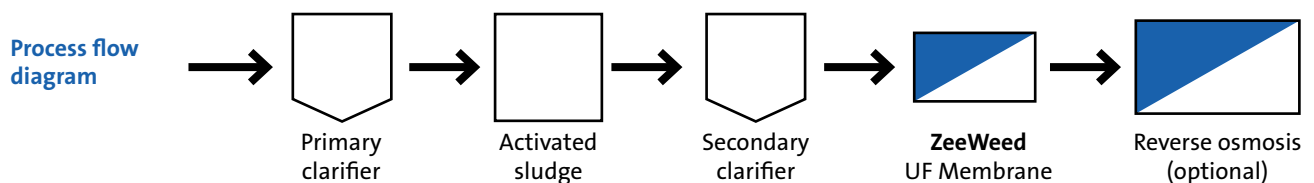
WATER TECHNOLOGIES

Beneficial reuse turns wastewater into a valuable resource



Global water resources are facing unprecedented pressures from growing populations, industries and agriculture. In an increasing number of regions around the world, wastewater recycling using membrane technology is providing a sustainable source of new water. Membrane technology can treat wastewater to such a high standard that it can be safely utilized for numerous applications such as irrigation, industrial process water or groundwater recharge. ZeeWeed* Tertiary Ultrafiltration (UF) Systems are designed to operate downstream of a secondary wastewater treatment process, where no further biological treatment is necessary, but where high quality water is required. The system features a small footprint that can be placed virtually anywhere or can even be used to retrofit existing granular filter media.

When compared to conventional granular filter media, ZeeWeed UF systems consistently produce a high-quality water, are easy to operate, are capable of handling solids spikes, and are less vulnerable to process upsets. The UF membrane system is also ideal for reverse osmosis (RO) pretreatment as it produces a high quality feed water that improves the reliability, performance and service life of the RO membranes.



Typical ZeeWeed Treatment Results	
TSS	≤ 2 mg/L
Turbidity	≤ 0.1 NTU
Silt Density Index (SDI)	≤ 2

ZeeWeed Features and Benefits:

- **Physical ultrafiltration (UF) barrier** – Produces a high quality effluent suitable for direct reuse or discharge
- **Produces an ideal reverse osmosis (RO) feedwater** – Allows the RO to operate at peak performance, reduces cleaning and fouling
- **Eliminates plant upsets and turbidity spikes** – Produces a high quality effluent at all times
- **Modular design allows for simple and efficient sand filter retrofits** – Reduced capital costs through use of existing infrastructure
- **Lowers chemical requirements** – Pretreatment and cleaning chemical usage can be dramatically reduced
- **Compact design** – Smaller plant footprint reduces capital costs
- **Greater level of automation** – Reduces operating costs

Proven Membrane Technology

As the pioneer of membrane technology, Veolia offers what no other membrane vendor can; a family of UF membrane products that are engineered for specific applications to ensure the most cost-effective and optimized system for your needs.



The ZeeWeed 1000 Series

The ZeeWeed 1000 series offers an ultra efficient design, which results in an extremely small system footprint and makes the system ideal for retrofitting existing granular media filters.



The ZeeWeed 500 Series

The ZeeWeed 500 series offers a reinforced membrane fiber for unmatched durability and operating life. The rugged fibers are ideal for applications with variable and extremely high levels of suspended solids.



The ZeeWeed 1500 Series

The ZeeWeed 1500 series offers the ZeeWeed UF membrane in a simple pressurized configuration for reliable performance and a compact footprint.

Resourcing the world

Veolia Water Technologies

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