

ZeeWeed* 500S ultrafiltration membranes for small MBRs

CUSTOMER BENEFITS

Flexible, Simple, Reliable Performance



Figure 1: ZeeWeed 500S Immersed Ultrafiltration (UF)

Small in Size – Big on Performance

Small size doesn't mean small challenges. As regulations tighten every water user can now employ MBR technology using the most trusted name in membrane filtration. The ZeeWeed* 500 series scales back on size and complexity with the ZeeWeed 500S, leveraging decades of MBR experience and delivering proven reliability of the ZeeWeed 500 to small flow systems.

At its core, ZeeWeed 500S uses the ZeeWeed 500 UF PVDF fiber which provides strength, reliability and efficiency for your application.

Features & Benefits

ZeeWeed 500 offers features and benefits that make it the right choice for many applications:

- **SELECTIVE.** A true UF membrane with 0.04 μm pore provides a physical barrier producing high quality effluent
- **TOUGH.** Unmatched fiber ruggedness through reinforced fiber and manufacturing advancements reducing maintenance and ensuring long membrane life
- **COMPACT.** Hollow fibers provide a greater filtration surface area that reduces plant footprint reducing construction costs
- **FLEXIBLE.** Utilize multiple geometries and comprehensive process tool kit to fit into existing tanks, replace other less reliable membranes, and accommodate any flow range or operability needs.
- **AVAILABLE.** With the world's largest Hollow Fiber membrane factory, get product when and where you need it.
- **RELIABLE.** Proven system performance in hundreds of municipal and industrial applications provides you with peace of mind.

Typical Applications

Apply Membranes to Very Small Systems

Perfect For Small Flows – 2 modules, the 500S and 500SA offer highly configurable geometries and process flexibility which can satisfy most space and operating constraints.

- ZW500S has simple options for mounting and

- connecting
- ZW500S, 1M a single module cassette with integrated hanging and connection points can be treating flow within hours
- ZW500SA cassettes of 4 and 8 modules arrive fully assembled to handle bigger flows
- Module are easy to maneuver and are self-standing on the ground for easy assembly and maintenance

Customer Benefits

Product	Configuration	Typical Flow Range ¹
ZW500S, 1M	Single module cassette	2-4 gpm (7-15 L/m)
ZW500S, 1M	Multi modules or multi train	4-25 gpm (15-100 L/m)
ZW500SA, 4M	Single Cassette	25 gpm (100 L/m)
ZW500SA, 4M	Multi Cassette, multi train	25-100 gpm (100-400 L/m)
ZW500SA, 8M	Single or multi cassettes or trains	50+ gpm (200+ L/m)

¹For illustrating purposes only. Flux and configuration depends on application, influent and effluent quality.

Convert a Conventional System to MBR

Convert to MBR in Existing Footprint, no matter the configuration – increase flow per ft² membrane installed in your system and achieve high effluent quality with MBR.

- Highly flexible ZeeWeed 500S product family cassette designs allow for maximizing existing tank space for treatment
- MBR offers a 100% barrier for solids retention

Non-Veolia Membrane Upgrades

Optimize Performance – ZeeWeed 500S reduces cleaning frequency and improves quantity of water produced per ft² membrane:

- Demonstrated to operate at 1.5 to 2.5 times the flow rate of similar products
- Features doubled-ended permeation that provides high permeability per module

Upgrade Retrofit or Replace – With options in geometry and operations, ZeeWeed 500S will fit.

- Upgrade less reliable or unsupported membrane systems to deliver a lasting and efficient plant upgrade
- With the world's largest UF membrane manufacturing capability, Veolia delivers quickly anywhere on the globe

Upgrade Older ZeeWeed 500 products

Convert a ZW500AB to ZW500SA easily – switch to the latest Veolia MBR membrane and improve performance without making any other system modifications.

- ZW500SA was designed to fit directly into an existing ZW500AB cassette



Figure 2: ZeeWeed 500SA Immersed Ultrafiltration Module