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ORGANICS

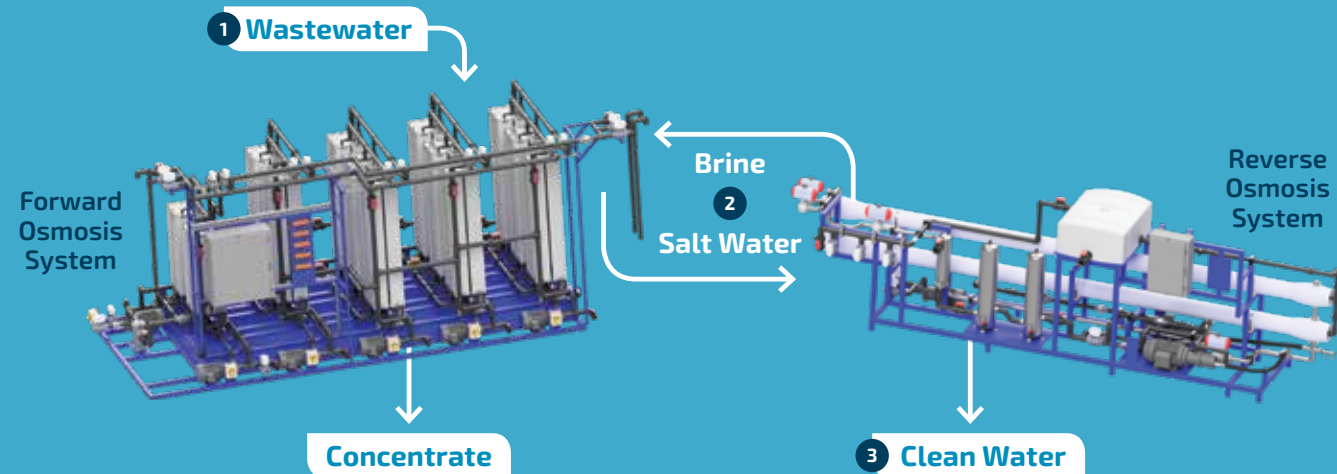


TWO-STEP REVERSE OSMOSIS[™]

FOULING-RESISTANT SOLUTION FOR WATER
RECLAMATION AND NUTRIENT CONCENTRATION

HOW TWO-STEP REVERSE OSMOSIS WORKS

The Two-Step Reverse Osmosis System is comprised of a “Stack” of proprietary Forward Osmosis (FO) membranes that work together with traditional Reverse Osmosis (RO) membranes to concentrate wastewater and extract clean water.



- 1** Wastewater is concentrated in the FO Stacks as water is extracted through the membrane and into a salt solution.
- 2** The salt solution is pumped into the RO which produces clean water and brine.
- 3** The brine is recycled back through the FO Stacks and the clean water is discharged and/or reused.

Technology Highlights

ANTI-FOULING, HIGH-FLUX MEMBRANE

Our FO membrane chemistry reduces fouling while maintaining high flux rates. It is also easy to clean.

DESIGNED TO LAST

We build systems with stainless steel pumps and hardware that's designed to stand up to your toughest wastewater.

MINIMAL PRE-FILTRATION REQUIRED

Our open-channel FO membranes can handle wastewater with suspended solids and dissolved organic matter.

FLEXIBLE & TUNABLE

Our systems are highly tunable to handle variations in wastewater composition and flow rates while maintaining high permeate recovery and efficiency.

HIGHLY AUTOMATED

Our systems are fully automated so there is little operator attention required. They are also remotely accessible and we provide data logging solutions through our online DO Metrics platform.

Two-Step Reverse Osmosis Applications:

- FOOD & BEVERAGE MANUFACTURING
- DISTILLERIES BREWERIES
- FARMS INDUSTRIAL & MUNICIPAL
- LANDFILLS & COMPOSTERS



Brewery Wastewater



Ultrafiltered Stillage



Ultrafiltered Manure



Food & Beverage Wastewater

Benefits:

- The FO Stack can handle high solids wastewater that is rich in organic matter with minimal pre-filtration.
- The FO runs at low pressures and has an anti-fouling membrane chemistry, allowing long run times between cleaning.
- Produces very clean water from dual-filtration (FO+RO)
- Compact footprint and highly scalable design
- Proudly manufactured in the USA



DO Metrics™

Our online dashboard for remote monitoring and data reporting.



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Work with us to Reclaim Your Waste™



EXPLORING *Filtration*

Call to learn how a Two Step Reverse Osmosis System can help your facility. We will assess your current situation and recommend the best solution for you.



TESTING *Filtration*

We will pilot test your material at our facility in Michigan or bring our equipment onsite, providing you with a thorough report and proposal for a full-scale system.



IMPLEMENTING *Filtration*

We deliver, install, and commission your new filtration system and teach employees how it works, ensuring it meets your expectations.



MAINTAINING *Filtration*

Our filtration equipment will become an integral part of your facility and allows you to streamline and expand your operations while reducing wastewater treatment costs and freshwater consumption.