

ECO WATER TECHNOLOGIES

INNOVATIVE • AFFORDABLE • EFFICIENT
 SCALABLE • COMPACT • MODULAR
 IRRIGATION • AWT • INDIRECT POTABLE



REVOLUTIONARY NEW TECHNOLOGY THAT REPLACES CONVENTIONAL BIOLOGICAL TREATMENT METHODS

APPLICATIONS

- **Municipal** including decentralized scalping units, standalone or supplemental, expansions
- **Agricultural** including farming, livestock runoff
- **Industrial** such as dairy, meat, and cheese processing
- **Oil & Gas** such as treatment of produced water from fracking operations
- **Biogas** production increased by producing raw undigested sludge with more potential for energy recapture

ONLY THE BEST COMPONENTS



Muffin Monster Grinders



Mazzei Venturi Air Injectors



Valworx Electric Actuated Valves



Yokogawa Magnetic Flow Meters & pH Analyzers



Eco Separation Module vs. DAF Systems

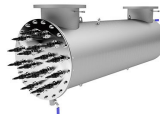
- No external devices or systems are needed to introduce air into the system with Venturi Air Injectors
- No energy demand or power consumption. The injectors use the flow of water through it to operate
- The lack of moving parts makes these systems long lasting and highly reliable
- Less labor intensive
- Venturi injectors can be easily moved to different locations within the system
- Easily maintained and serviced
- Lightweight system on an FRP skid for easy transportation
- Strong and durable construction
- Less controls are needed
- Smaller tanks process more wastewater than DAF systems



Arkal Microfiltration Disc Filtering System



Hydrocyclones



Wedeco UV Light Reactors



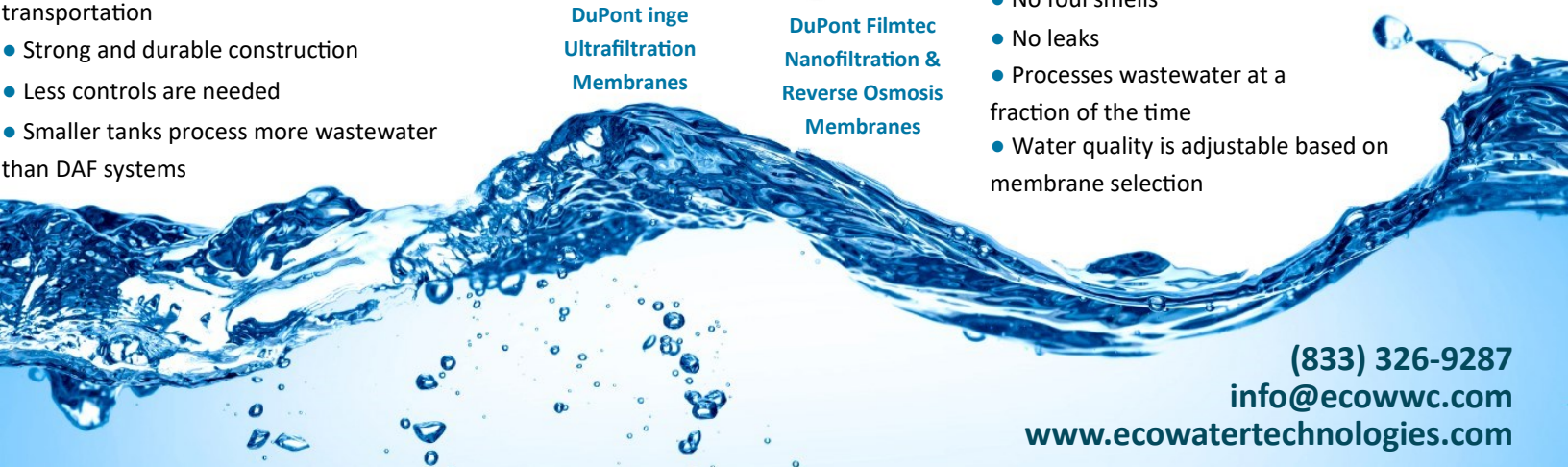
DuPont inge Ultrafiltration Membranes



DuPont Filmtec Nanofiltration & Reverse Osmosis Membranes

Eco System vs. Conventional Biological Methods

- Lower capital and operating costs
- Lower maintenance and servicing costs
- Smaller physical footprint
- Easily maintained and serviced
- One technician can operate the entire system
- Minimal moving parts for long lasting and reliable components
- The system is modular which can easily be adjusted to changing needs
- The system is scalable where additions to the system can increase capacity immediately
- Minimal lead times since modules are built offsite
- Generates no greenhouse gases
- No foul smells
- No leaks
- Processes wastewater at a fraction of the time
- Water quality is adjustable based on membrane selection



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ECO SYSTEMS

S Series / R Series / M Series



The Eco System

The Eco System has lower capital and operating costs, smaller physical footprint, is modular, can be installed with minimal lead time while producing a higher purity of water than current technology. The Eco System processes wastewater at a fraction of the time while generating no greenhouse gases, no foul smells, and no leaks. The Eco System is scalable where additions to the system can increase capacity immediately, and the water quality is adjustable based on membrane selection.



S Series

The **Eco Separation Module** is a highly efficient, low cost, and low maintenance alternative to traditional DAF systems. The Separation Modules effectively remove approximately 95% of settleable and suspended solids bringing the TSS levels below 40 mg/L, below 20 mg/L on average.



R Series

The **Eco Irrigation Grade System** adds Microfiltration (MF) and Ultrafiltration (UF) Membrane Modules to the Eco Separation Module to further reduce the TSS to undetectable levels and an Ultraviolet (UV) Light reactor to disinfect its product water to achieve irrigation/AWT grade product water.



M Series

The **Eco Indirect Potable System** adds a Nanofiltration (NF) or Reverse Osmosis (RO) Membrane Module to the Eco Irrigation Grade System to remove the dissolved solids and remaining contaminants to levels that exceed the EPA and WHO primary and secondary drinking water requirements while providing residual chlorination to further disinfect the product water.

Physical Specifications and Operating Costs

Series	Model	Dimensions (ft)			GPM	M ³ /min	m ³ /day	Electrical Cost		
		L	W	H				/kgal	/m ³	/day
S Series - Eco Separation Modules	S100	7.75	5.00	7.83	100	0.379	545	\$0.0085	\$0.0022	\$1.22
	S250	10.96	8.18	8.90	250	0.946	1363	\$0.0044	\$0.0012	\$1.57
	S500	10.96	8.18	9.50	500	1.893	2725	\$0.0036	\$0.0010	\$2.62
R Series - Eco Irrigation Grade Systems	R100	30.97	5.00	10.93	100	0.379	545	\$0.0341	\$0.0090	\$4.91
	R250	32.97	8.18	10.93	250	0.946	1363	\$0.0183	\$0.0048	\$6.59
	R500	32.97	8.18	10.93	500	1.893	2725	\$0.0142	\$0.0038	\$10.23
M Series - Eco Indirect Potable Systems	M100	30.97	11.75	10.93	100	0.379	545	\$0.0420	\$0.0111	\$6.04
	M250	32.97	13.80	10.93	250	0.946	1363	\$0.0220	\$0.0058	\$7.93
	M500	32.97	13.80	10.93	500	1.893	2725	\$0.0175	\$0.0046	\$12.58

*Operating Costs are estimations based on cost of electricity per kWh of \$0.10

For more information on Eco Irrigation Grade Systems, contact:

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