



Eco-friendly wastewater reclamation & treatment systems since 1988

AquaTex™ AO

Wastewater Resources Inc. (WRI) – WRI is an original equipment manufacturer of proprietary and patented wastewater reclamation and treatment systems for a variety of complex water applications. WRI manufactures two advanced water purification plants for the municipal water and wastewater market: **AquaTex™ AO**, AquaTex BIO, AquaTex MRB, and AquaTex™ RO. To service its public and private clients, WRI offers AquaTex™ Ultra for reclaiming, treating, and disinfecting graywater and blackwater.

Business Case – AquaTex™ AO is an advanced water purification (AWP) plant for reclaiming, treating, and disinfecting graywater and blackwater. The AO model can also recycle treated wastewater or channel it for beneficial reuse. Whether a resort or municipality, AquaTex™ AO accommodates any size water stream by the addition of specific components to extend its capacity. It is compact, rugged, versatile, automated and affordable.

Technology – AquaTex™ AO use a five-stage treatment process: prefiltration, nanofiltration, advanced oxidation, ultrafiltration, and ultraviolet chamber.

The reclamation process begins by first collecting the wastestream and passing it through a 10-micron vibrating shaker screen and then through 5-micron tubular backwash filters for loose particle separation. The number of additional backwash filters is dependent on the size and content of the wastestream. The filtrate then flows through an advanced proprietary oxidation reactor and then through a ceramic ultrafiltration membrane to reduce particles to less than a 0.01 micron level. The final stage is complete disinfection in an ultraviolet chamber. Treated wastewater may then be discharged, recycled or reused.



The WaterReuse Association defines reused, recycled or reclaimed water as water that is used more than one time before it passes back into natural water cycles such as irrigation, industrial processes, toilet flushing, and replenishing groundwater basins.

WRI's Municipal Products:

- AquaTex™ AO
- AquaTex BIO
- AquaTex MBR
- AquaTex™ RO

AquaTex™ Ultra reclaims, treats, and disinfects graywater and blackwater.

AquaTex™ AO can be used by resorts, masterplanned communities, military bases and municipalities.

AquaTex™ AO uses a five-step treatment process that produces a high-quality effluent for recycling or reuse.

AquaTex™ AO

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Benefits – Benefits derived from AquaTex™ AO are numerous:

- Versatile advanced water purification plant
- Rugged modular skid-mounted stainless steel construction
- Fully automated with user-friendly color interface
- High-quality effluent to meet stringent standards
- Low operations and maintenance costs and
- Reduces environmental degradation.

Sustainable Community Utility Solutions – WRI also offers Sustainable Community Utility Solutions (SUCS) in conjunction with energy partners such as Black & Veatch. A SCUS is a distributed water and power system that supplies water, sewer, and energy services to a community using the best available renewable technologies and processes. A community may be a municipality, business, industry, or military base. SUCS is the wave of the future in the utility service industry, and AquaTex™ AO is one of four of WRI's renewable water solutions.



Automated Controls – Every automated system that WRI manufactures comes equipped with a state-of-the-art control panel with the latest Allen Bradley PLC technology that offers user-friendly color touch screen programming, computer monitoring, and full reach-back capabilities to the corporate office. Whether wastewater streams are from gas wells, manufacturing plants, or cruise ships, WRI lead the industry in system automation technologies. At its manufacturing facility in Scottsdale, the Systems Automation Group builds control panels, installs wiring and electronic components, writes custom software, and prepares operating and training manuals for its clients.



AquaTex™ AO is versatile, rugged, automated and affordable.

AquaTex™ AO is one of WRI's offerings for Sustainable Community Utility Solutions.

AquaTex™ AO is equipped with automated controls, user interface and remote monitoring capabilities.

AquaTex™ AO control panel

*Wastewater Resources:
Keeping our waters clean.*

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