



AquaTex™ Ultra

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™ Ultra** 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™ Ultra is an advanced water purification (AWP) plant for reclaiming, treating, and disinfecting graywater and blackwater. The Ultra can also recycle treated wastewater or channel it for beneficial reuse. Whether a resort, masterplanned community, military base, or municipality, AquaTex™ Ultra 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™ Ultra 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 a 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™ Ultra
- AquaTex™ RO

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

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

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

AquaTex™ Ultra

Benefits – Benefits derived from AquaTex™ Ultra 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 and Chevron Energy Solutions. 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™ Ultra and RO are two 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™ Ultra is versatile, rugged, automated and affordable.

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

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

AquaTex™ Ultra control panel

*Wastewater Resources:
Keeping our waters clean.*

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