

Original Equipment Manufacturer (OEM)

Filters

- ✓ Sand, Multimedia, Carbon, and Iron Removal (Greensand)

Demineralizers

- ✓ Water Softener, Cation, Anion, Mixed Bed, Packed Bed, Layered Bed, Counter Flow Exchangers, Metal Removal, Arsenic, Perchlorate, and Condensate Polisher Systems

Membranes

- ✓ Microfiltration, Ultrafiltration, Reverse Osmosis, Softening, Degasification

Electrodeionization

- ✓ Both Stack and Module Units

Biological Processes

- ✓ Membrane Bioreactor, Immobilized Cell Bioreactor, Trickling Filter, Fixed Film, Suspended Growth

Ancillary Equipment

- ✓ Brine, Potassium Permanganate, Acid, and Caustic Regeneration Skids; pH Adjustment; Force Draft Aerators; Vacuum Degasification Towers; Membrane Degasification; Waste Neutralization Systems; Bulk Chemical Systems; Chemical Feed Systems; Bag Filters; Micron Filters; Tubular Filters; Clarifiers; CIP and Pump Skids; Organic Reduction Systems; Oil/Water Separators

Unique Process Solutions

Design/Build Operate

- ✓ Provide on-site operation and ownership of the system after installation

Equipment Enhancement

- ✓ Working with OEM to design and develop standardized production equipment skids

Standard Products

- ✓ **WTModules** complete standardized production equipment skids

Waste Water Recovery System

- ✓ Resolve tough wastewater recover/reclaim systems for industrial applications

WTMobile/Containerized Product

- ✓ Provide mobile/containerized solutions for each of its product lines

Heavy Metals Removal/Remediation

- ✓ Technologies for metal removal include electrocoagulation, iron injection, and media-based solution

System Validation

- ✓ Review operating systems and provide recommendations to improve their efficiency



Markets Served & Applications

Power/Cogeneration Industry

- ✓ Boiler Feed Water, Condensate Polishing, Water and Wastewater Recycling, Waste Neutralization, Oil/Water Separators

Semiconductor

- ✓ Boiler Feed Water, High Purity Water (HPW), Ultra-High Purity Water (UPW), Water & Wastewater Recycling, CMP Waste, Waste Neutralization, Oil/Water Separators

Pulp & Paper, Chemical/Petrochemical

- ✓ Boiler Feed Water, Condensate Polishing, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

Pharmaceutical/Biotechnology

- ✓ Purified Water, WFI Water, Boiler Feed Water, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

Hazards/Explosives Processing Equipment

- ✓ Media Filtration, Neutralization, Recycling, Tanks, Pressure Vessels (designed and fabricated for hazard/explosive processing applications)

Food & Beverage, “Fresh Cut”

- ✓ Recycle Water & Wastewater Recycling into Potable/Sanitary Water, Water Softeners, Cold Systems (no heat)

Drinking Water

- ✓ Make-up Water, Water & Wastewater Recycling, Waste Neutralization, Oil/Water Separators

Industrial Water & Wastewater

- ✓ Water & Wastewater Recycling, Iron Removal, pH Adjustment, Oil/Water Separators

Groundwater Remediation

- ✓ Chromium, Arsenic, Perchlorate Removal

Municipal Water & Wastewater

- ✓ Water Treatment, Water & Wastewater Recycling, Iron Removal, pH Adjustment, Oil/Water Separators

Organic Destruction

- ✓ Utilizing Chlorine, Ozone, Ultraviolet, and Chemical Oxidation Processes

Zero Liquid Discharge

- ✓ Chemical & Waste Minimization and Recycling of Water/Wastewater Processes, Oil/Water Separators

The AVANTech Advantage

- ✓ Custom Equipment for All Your Needs
- ✓ Single Source for Testing, Design, and Manufacturing
- ✓ Experienced Chemical, Mechanical, and Electrical Engineering Staff
- ✓ ASME Code Stamp and UL Certified Panels
- ✓ State-of-the-Art Process Automation with PLC System Integration
- ✓ All System Components Pre-Assembled and Tested at either our Columbia, SC, or Knoxville, TN, Manufacturing Facility to Confirm Operation Prior to Installation
- ✓ Turnkey Capability to Integrate All Treatment Systems

