

WATERINNOVATIONS^{inc}

BATCH TREATMENT SYSTEM



A highly-automated system scalable by components sizing to treat up to 5,000 gallons per day, either stand alone or integrated with our ion exchange & specialized treatment systems. Designed based on our years of experience with a variety of metal-bearing wastewater. The reaction tank includes a mixer, pH & ORP sensors, and H₂SO₄ NaOH coagulant, precipitant, and flocculent feed pumps to ensure effective regulated metals precipitation.



Engineered to treat a wide range of waste water from various industrial applications

COMPONENTS - FEATURES - BENEFITS

- Separate acid and alkaline waste holding tanks
- Cone-bottom treatment tank with gear-drive mixer
- Signet pH, ORP, & level process-controlling sensors
- Air diaphragm or electronic chemical feed pumps
- Supernate discharge ports & transfer pump
- Sludge tank & feed pump with Auto Pump Control
- Programmable Logic Control (PLC) automation
- Touch screen human-machine interface (HMI)
- Standardized and pre-engineered
- Modular, ready to install & utilize
- Best-in-Class, high-quality components
- Intuitive yet powerful operating controls
- Scalable based on pumps and tanks sizes
- 304-SS polyurethane-coated frames
- Non-metallic tanks & bases for long-life
- Schedule 80-PVC and true union valves

BATCH TREATMENT SYSTEM

Programmable logic control (PLC) & touchscreen human machine interface (HMI)

Variable components sizes to meet a wide range of waste volume requirements

Best-in-class system components and state-of-the-art designs & engineering

Scalable Components

- Acid & Alkaline Waste Tanks
- Waste Transfer Pumps HP
- Batch Treatment Tank
- Tank Mixer
- Chemical Feed Pumps
- Sludge Holding Tank
- Sludge Feed Pump
- Supernate Discharge Pump
- System pumps skid

Applications

Designed for heavy-metals, O&G, BOD, and a variety of wastewater from many industrial applications

- Metal Finishing & Plating
- Printed Circuit Boards
- Aerospace Anodizing
- Electronic Connectors
- Paint & Powder Coat
- Plating on Plastics

Automation

- Allen-Bradley Compactlogix PLC
- Allen-Bradley Panelview HMI
- Signet sensors and instruments
- Proportional chem pump dosing
- Filter press Auto Pump Control
- Ethernet-based remote access
- Integrated HMI data-logging

