

# WATERINNOVATIONS<sup>inc</sup>

## WASTE NEUTRALIZATION SYSTEMS



A highly-automated system scalable by components size to treat up to 100 gallons per minute, either stand alone or integrated with our ion exchange & waste treatment systems. Designed based on our years of experience with a variety of metal-bearing wastewater. The single reaction tank with mixer, pH & level sensors, and H<sub>2</sub>SO<sub>4</sub> & NaOH pumps ensures required reaction time for neutralization to meet regulator pH discharge limits



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

### COMPONENTS - FEATURES - BENEFITS

- Single or 2-Stage depending on feed water pH
- Flat-bottom reaction tank with gear-drive mixer
- Signet pH & level process-controlling sensors
- Air diaphragm or electronic chem feed pumps
- Treated water discharge/transfer pump
- Programmable Logic Control (PLC) automation
- Touch screen human-machine interface (HMI)
- Standardized and pre-engineered
- Modular, ready to install & utilize
- Tank internals for maximum reaction time
- Best-in-Class, high-quality components
- Intuitive yet powerful operating controls
- Scalable based on pumps and tanks sizes
- 304-SS polyurethane-coated mixer stand
- Non-metallic tank(s) for long-life
- Schedule 80-PVC and true union valves

# WASTE NEUTRALIZATION SYSTEMS

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

- Waste Holding Tank
- Waste Transfer Pump
- Reaction Tanks
- Tanks Mixer
- Chemical Feed Pumps
- Treated Water Pump

## Applications

Designed for non-metal bearing rinses, oxidation of high BOD, & a variety of wastewater from many industrial applications

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

## Automation

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

