

# Wastewater Neutralization Systems

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### Standard and Custom Modules



**W**<sub>2</sub> Systems wastewater neutralization systems are designed to treat influent wastewater with pH from 0.01 to 13.99 pH units. Standard neutralization systems can treat up to 90 GPM and 70 minutes of retention. W2 has performed over twenty neutralization system installations in California.

Our large range of multi-compartment neutralization systems treat influent streams with wide flow and pH variations. Standard WN package neutralization systems have simplex, duplex and triplex compartments:

B1 Series - Batch/Simplex Flow, up to 600 gallons retention volume

F2 Series - Duplex Flow, up to 4400 gallons retention volume

F3 Series - Triplex Flow, up to 4700 gallons retention volume

With Acid and Caustic Feed Tank/Pumps systems sized to treat all influent wastewater conditions

#### Construction Features

- Partitioned-compartment mechanically attached to Secondary (Containment) Tank
- W2 Systems' unique welding method for strength and performance:
- 1/2" White Polypropylene - FM Approved
- Hinged Covers with clear view-port, drip berm and drains
- 316 SS bolts throughout (Hastelloy available)
- System overall height less than 6 feet

#### Chemical Feed System Features

- Caustic (30%) Tanks sized 100, 200 and 350 gallons
- Sulfuric Acid (up to 93%) Tanks sized 15 and 100 gallons
- Each tank has integral secondary containment
- Duplex acid and caustic feed pumps
- For low feed rates - PLC-controlled Motor diaphragm pumps
- For high feed rates - Recirc flow with PLC-controlled modulating feed valves
- All chem piping double-contained and Factory Tested



www.healthchem.com P.O. Box 15700 San Francisco, CA 94115 Phone: 800.676.3689

## Indicators and Controls

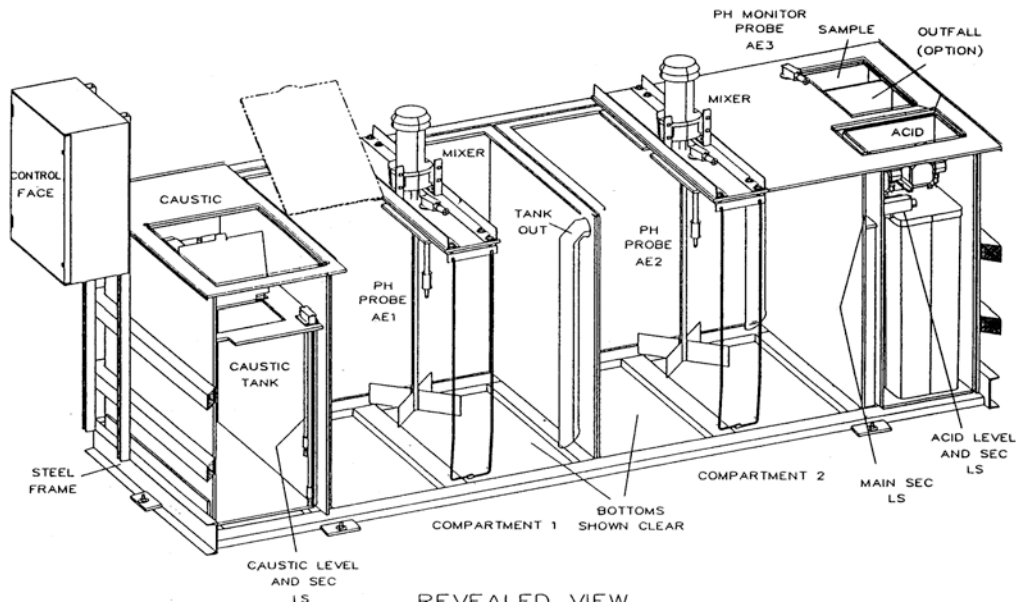
- Mixer switches and running lights
- pH Analyzer in each compartment
- Effluent pH Analyzer/Indicator/Recorder
- Effluent Flow Indicator/Total/Recorder
- Containment switch activates local alarm
- Acid/Caustic control/alarms
  - Low chemical level local alarm
  - Containment local alarm
- Optional dry contacts for remote monitoring
  - Effluent pH out-of-spec alarm
  - Acid or Caustic low level alarm
  - Containment level alarm
- Optional Out-of Spec Return Pump

## Control System and Power Supply

The control system monitors the solution pH in each compartment to actuate and control the caustic or acid feed systems.

The effluent pH is indicated and recorded, and local alarms are actuated if the pH falls outside the setpoint limits.

- UL-listed NEMA 4X enclosure
- PLC can be field- programmed via RS232 port
- All power and controls pre-wired, factory-tested
- Main safety disconnect switch by others



## Selection Guide

Model	Treatment Stages	Design Flow	Treatment Volume	Retention	Footprint
WN-05-B1	Batch/Simplex	5 gpm	150 gallons	30 min.	4' x 4'
WN-10-B1	Batch/Simplex	10 gpm	300 gallons	30 min.	4' x 6'
WN-15-B1	Batch/Simplex	15 gpm	600 gallons	40 min.	4' x 8'
WN-10-F2	Duplex	10 gpm	420 gallons	42 min.	4' x 8'
WN-20-F2	Duplex	20 gpm	840 gallons	42 min.	4' x 12'
WN-20-F3	Triplex	20 gpm	1000 gallons	50 min.	4' x 12'
WN-30-F2	Duplex	30 gpm	1100 gallons	36 min.	4' x 14'
WN-30-F3	Triplex	30 gpm	1260 gallons	42 min.	4' x 14'
WN-40-F2	Duplex	40 gpm	1980 gallons	49 min.	4' x 18'
WN-40-F3	Triplex	40 gpm	1650 gallons	41 min.	4' x 18'
WN-50-F2	Duplex	50 gpm	2700 gallons	54 min.	6' x 11'
WN-50-F3	Triplex	50 gpm	3000 gallons	60 min.	4' x 20'
WN-60-F2	Duplex	60 gpm	3230 gallons	53 min.	6' x 13'
WN-60-F3	Triplex	60 gpm	4200 gallons	70 min.	6' x 20'
WN-75-F2	Duplex	75 gpm	3770 gallons	50 min.	6' x 15'
WN-75-F3	Triplex	75 gpm	4700 gallons	62min.	6' x 22'
WN-90-F2	Duplex	90 gpm	4400 gallons	48 min.	7' x 15'

*We deliver our wastewater systems quickly. They are easily installed and require minimal maintenance. A one year warranty is standard.*

*Call today for more information!*

