



### Highlights

- One-way or two-way pH Adjustment
- Fine and coarse adjust (up to +/- 0.1 efficacy)
- Batch or continuous flow system
- No minimum / maximum flowrates
- Wide Variety of Material of Construction: Polypropylene, HDPE, carbon steel, stainless steel (304 / 316L / Super Duplex), FRP

### Standard Features

- Carbon steel and HDPE construction
- Heavy duty industrial coatings
- Automatic pH System
- Automatic chemical metering
- Fully factory assembled and tested
- NEMA 4 electrical components

### Options

- Skid-based system which is modular and mobile
- Freeze protection packages
- Vapor containment and recovery
- PLC based control with remote monitoring
- Coagulant and flocculant dosing
- Effluent / influent pump packages

### pH ADJUSTMENT SYSTEM - STANDARD PRODUCT DATA SHEET

MODEL #	FLOW RATE	SINGLE STAGE	DUAL STAGE	CAPACITY
20	20	3' W x 5'L	3' W x 7'L	1S – 100, 2S-200
60	60	5.5' W x 5.5'L	5.5' W x 9'L	1S – 300, 2S-600
100	100	6' W x 6'L	6' W x 10'L	1S – 500, 2S-1,000
160	160	6' W x 6'L	6' W x 10'L	1S – 800, 2S-1,600
200	200	7' W x 7'L	7' W x 12'L	1S – 1,000, 2S-2,000
260	260	9' W x 9'L	9' W x 16'L	1S – 1,300, 2S-2,600
340	340	10' W x 10'L	10' W x 18'L	1S – 1,700, 2S-3,400



**System Description: Two-Stage pH Adjustment System**

- Two-stage pH Neutralization System
- 4,000 gallon total capacity neutralization tank
- 2,000 gallon chamber for initial/coarse pH adjustment with acid or caustic
- 2,000 gallon chamber for final pH neutralization
- Heavy-duty industrial polypropylene construction
- Mixers, metering pumps, pH sensors and local Control Panel

**Project Description**

This 200 gpm stand-alone pH Neutralization System was installed to provide semi-continuous neutralization of a 5% aqueous solution of sulfuric acid. The installation is located at a South Charleston, West Virginia facility that produces millions of pounds of polymer polyols each year that are used in the manufacture of urethane foam. This company produces 45% of the global market share in automotive seating and is a major supplier of foam to the furniture market for use in couches, bedding, and related products.



**System Description: Two-Stage pH Adjustment System**

- High-density polyethylene dual reaction tank construction
- Reaction tanks each have 750 gallon capacity.
- System designed for 90 gpm flow rate with 180 gpm peak.
- Mixers, metering pumps, pH controllers, probes, tank level sensors
- System Control Panel

**Project Description**

Complete skid-mounted, Two-Stage Ph Adjustment System designed to treat CIP (Clean-in-Place) batch discharge dumps, loading bay and tanker washdowns, along with the occasional spill, at a juice-making operation in southern Wisconsin. The dual stages enable the system to handle wide pH fluctuations from acidic to caustic. The first stage provides initial or rough pH adjustment and the second stage produces final adjustment.



**System Description: One-Way Single-Stage pH Adjustment System**

- High-density polyethylene (HDPE) construction, 100 gallon capacity, skid-mounted
- Maximum flow rate of 5 GPH, normally intermittent so may require batch treating
- Mixer, metering pump for addition of caustic, pH instruments
- Local Control Panel

**Project Description**

This pH Neutralization System is installed and operating at the manufacturing facilities of an international supplier of precision labware, glassware and specialty products for life sciences. Located in Tennessee, their manufacturing processes require the use of Hydrochloric Acid, Hydrofluoric Acid, de-ionized water, and alkaline glass cleaners in the rinsing / cleaning stages. The use of these cleaners typically results in wastewater with low pH. The Hydrofluoric Acid is reused.