

## - LabDELTA™ -

### Automated Acid Neutralization Batch System for the Laboratory



#### LabDELTA and LabDELTA EXTREME

##### LabDELTA Applications for 2 pH to 7 pH

- Pharmaceutical laboratory acid waste
- Semiconductor cleanroom tool discharges
- Rinse tank wastes
- Automated strong acid waste treatment
- Industrial R&D facilities
- Any small applications with acidic waste

##### LabDELTA EXTREME Applications

- Strong or super acids with 0 pH to 2 pH

### ACTIVE NEUTRALIZATION WITH LIQUID CAUSTIC

#### Standard Features

- 2, 4, and 6 gallon batch sizes
- Fully enclosed with secondary containment and a bolted cover
- Under counter or under sink installation
- Installation without a contractor or electrician
- Integral collection tank with feed pump
- Integral discharge pump
- Fully automatic pH adjustment
- Influent flow to a collection tank
- Automatic metering to reaction tank
- Batch neutralization or reaction tank
- Mixer with 316 stainless steel shaft and propeller
- Industrial pH controller, preamp, and sensor
- Industrial level switch
- Influent line (1") and Discharge line (1")
- Chemical supply tank (50% Caustic)
- Industrial chemical metering pump (50% Caustic)
- Mechanical and Electrical drawings
- Complete control panel
  - pH controller or small PLC
  - Process ON/OFF switch
  - High pH alarm light

#### Options

- Remote or wall mounted control panel option
- UL rated control panel option
- Paper strip chart recorder or digital data logger
- Alarm contacts
- Audible alarm with silencer
- Flow monitor with totalizer (paddle wheel type)
- For waste streams that incorporate traces of HF, our design can include special epoxy coated mixer shaft, a special pH electrode for HF, and other misc. components
- Two stage treatment with Limestone

#### Operational Guidelines

- Influent temperature must be  $\leq 120^{\circ}$  F
- Influent pH must be  $\geq 0$  or 2 (depending upon model)
- Water line must be available
- Large debris may clog plumbing and damage sensors
- Not suitable for heavy metal removal

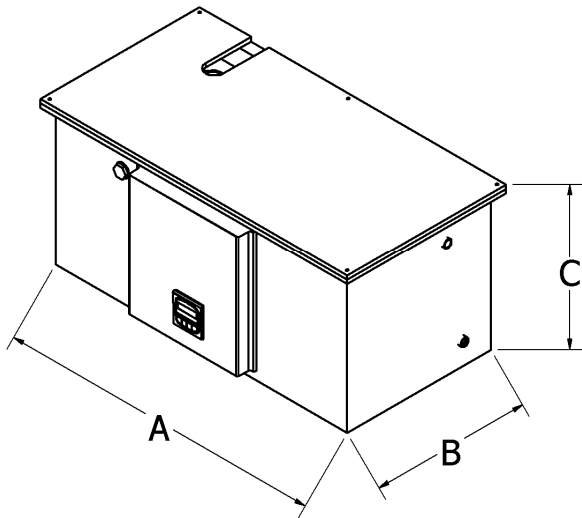
#### Materials of Construction

- Tanks (polypropylene and HDPE)
- Housing (polypropylene)
- Mounting bolts (316 SS)
- Metering pump (polypropylene or PVC)

#### Utility

- 115VAC, 1-Phase, 60HZ – cord included
- Water access

Part #	Batch Size (Gallons)	Neutralization Tank Capacity (Gallons)	Chemical Tank Capacity (Gallons)	Mixer (HP)	Metering Pump (GPH)	A (inches)	B (inches)	C (inches)	Dry Weight (lbs)
LabDELTA LD02	2	2	2	1/20	0.6	34	17	25.5	55
LabDELTA LD04	4	6	2	1/20	1.0	40	23	25.5	70
LabDELTA LD06	6	11	2	1/20	1.0	41	21	25.5	85
LabDELTA EXTREME LDE006	6	2	2	1/20	0.6	41	21	19	150



WASTECH firmly backs up all system design and equipment selections as the most effective way to provide our clients reliable and long-term performance capabilities. We guarantee performance and total satisfaction of the LabDELTA systems.

