

- LabDELTA™ -

Laboratory Acid Waste Neutralization (AWN) Continuous System



Applications

- Pharmaceutical laboratory wastes
- Strong acid neutralization 0-2pH
- Semiconductor wafer rinse wastes
- School laboratories with 2 to 18 sinks
- Industrial R&D facilities
- Cleanroom automatic waste treatment
- Pure acids application 0 to 2 pH
- Any small applications with acidic waste

NEUTRALIZATION WITH LIMESTONE and LIQUID CAUSTIC

Standard Features

- 1,2 or 3 gpm continuous designs
- Either caustic and/or acid neutralization
- Optional limestone pre-treatment
- Double contained – tank within a tank design
- Fully automatic pH adjustment
- Influent flow: gravity or pump to the system
- PP reaction tank with PP top
- PP monitoring tank with PP top
- Temperature monitoring and alarm shutdown
- Mixer with 316 stainless steel shaft and propeller
- Industrial pH controller, preamp, and sensor
- Industrial level switches
- PP Chemical tanks (Caustic and/or Acid)
- Industrial chemical metering pump (Caustic)
- Industrial chemical metering pump (Acid)
- Nameplates for all components
- Complete control panel
(mounted to the unit or remotely mounted to a nearby wall.)
 - pH controller
 - Process ON/OFF switch
 - High pH alarm light

Options

- Chart recorder (paper or data logger)
- Alarm contacts
- Audible alarm with silence
- Flow monitor with totalizer (paddle wheel type)
- For waste streams that incorporate traces of HF, our design can include special epoxy coating for the shaft mixer, a special pH electrode for HF, and other misc. components
- Limestone pre- treatment

Operational Guidelines

- Influent temperature must be $\leq 120^{\circ}\text{F}$
- Influent pH must be ≥ 0
- Large debris may clog plumbing and damage sensors
- Not suitable for heavy metal removal

Materials of Construction

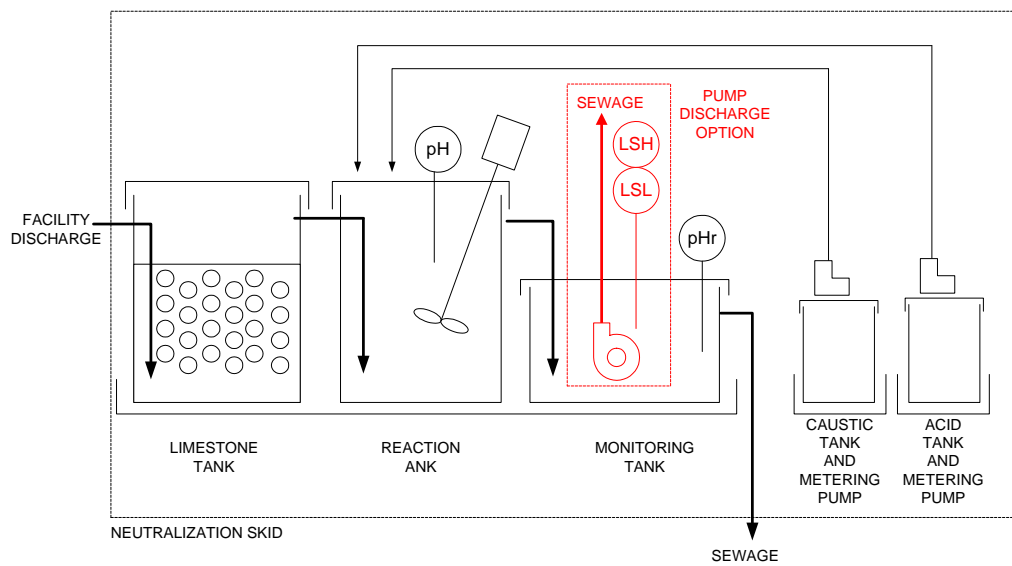
- Tanks (polypropylene)
- Tank covers (polypropylene)
- Housing (polypropylene)
- Mounting bolts (316 SS)
- Metering pump (polypropylene or PVC)

Utility

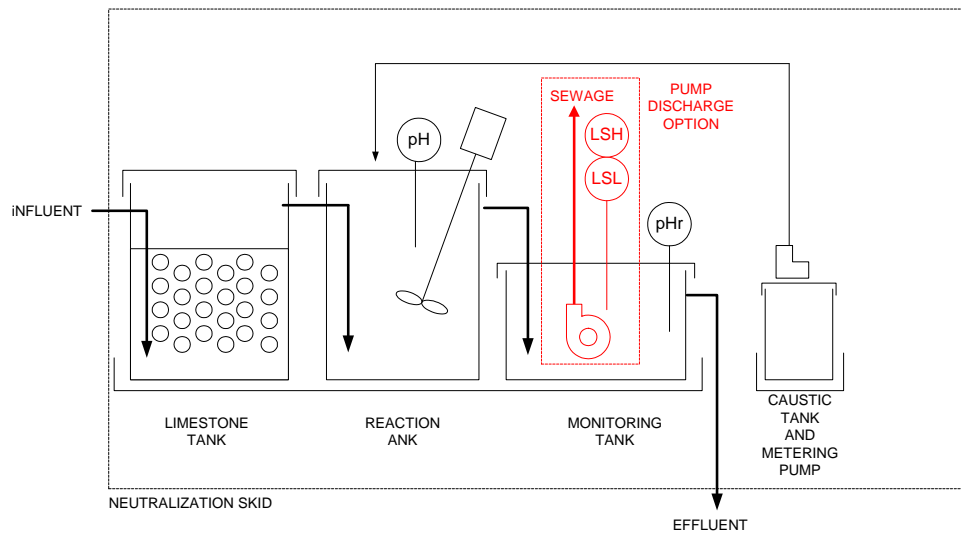
- 115VAC, 1-Phase, 60Hz
- 6' power cord included

Part #	Flow Rate (Gals)	Model A B Or C	Limestone Tank (Gallons)	Neutralization Tank (Gallons)	Monitoring Tank (Gallons)	Chemical Tank(s) Capacity (Gallons)	Mixer (HP)	Metering Pump(s) (GPH)	A width (inches)	B length (inches)	C height (inches)	Dry Weight (lbs.)
LD10	1		33	33	22	11	1/20	1	39	61.5	36	560
LD20	2		42	42	28	15	1/20	1	39	61.5	36	600
LD30	3		50	50	33	36	1/20	1	39	61.5	42	640

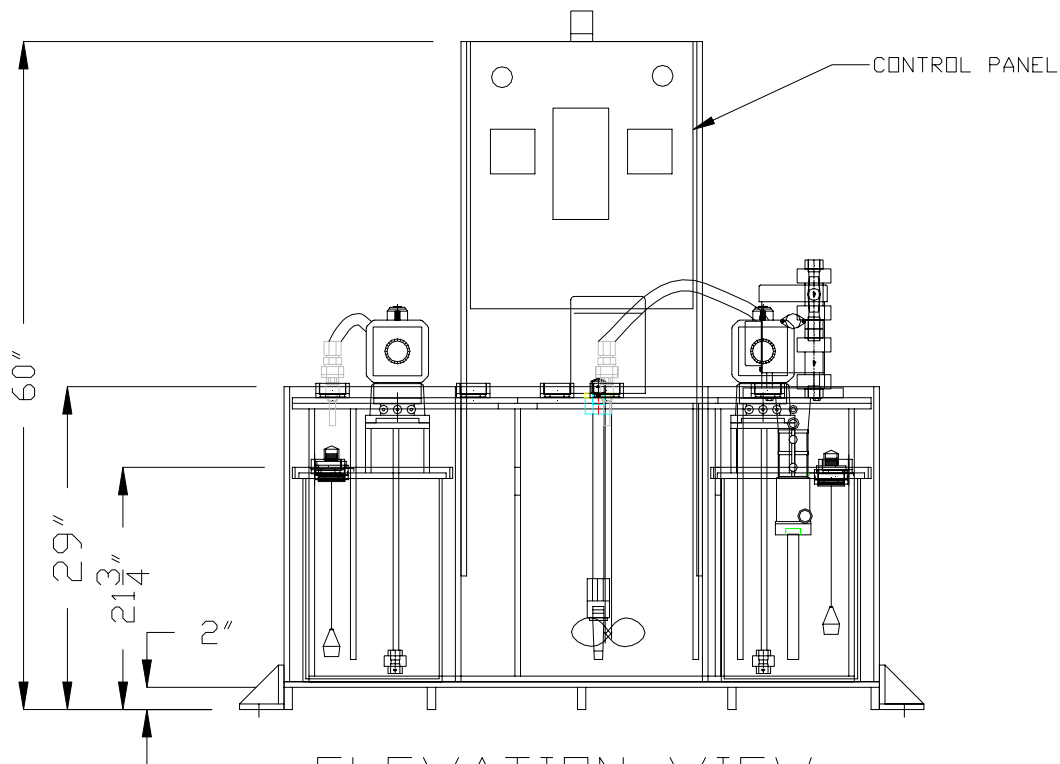
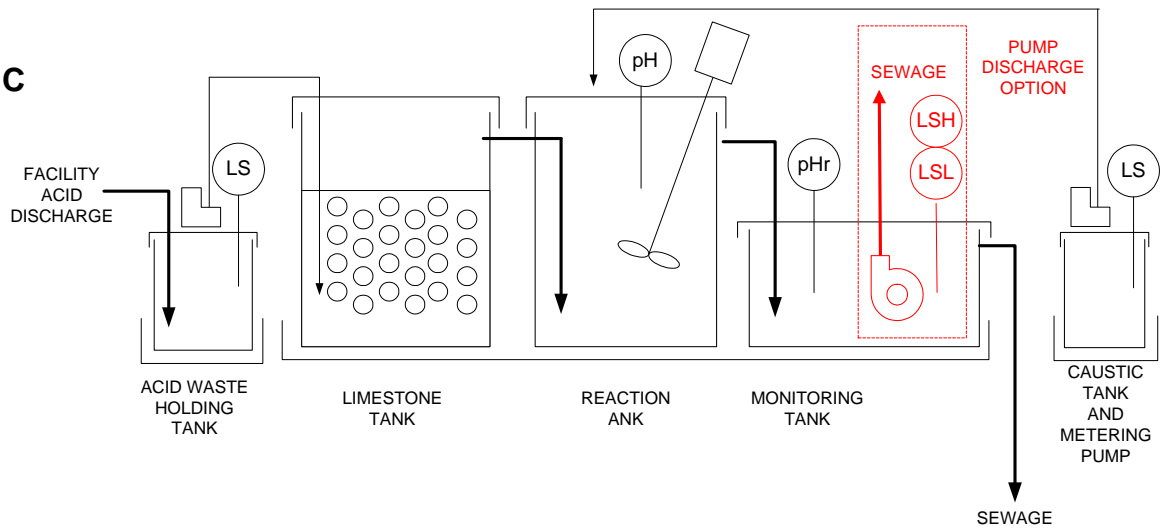
Model A



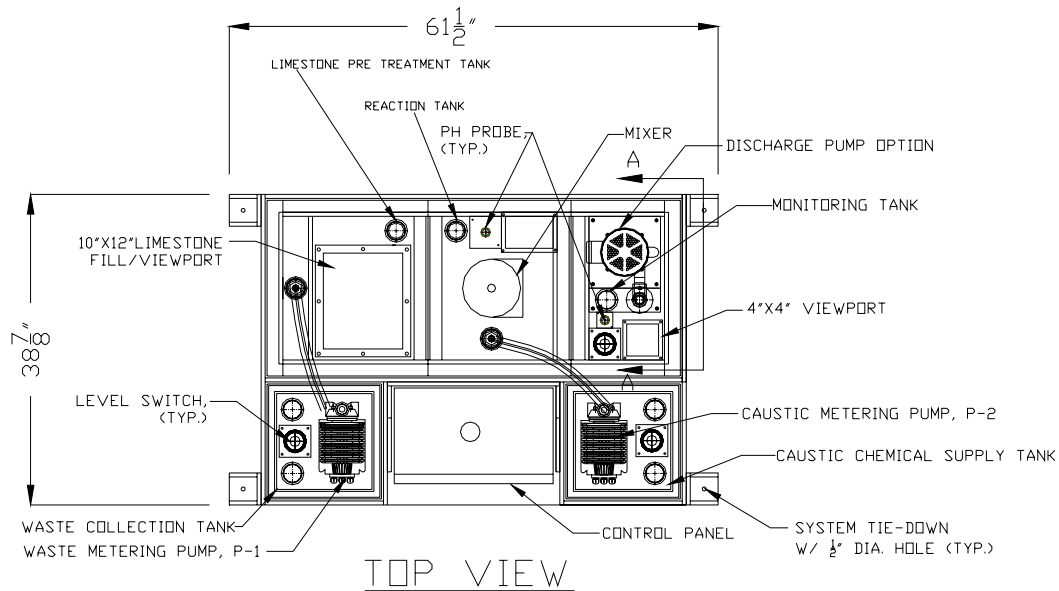
Model B



Model C



ELEVATION VIEW



OPTIONS

- Flow monitor with totalizer (paddle wheel type)
- Limestone Pre Treatment (200 lbs)
- Paper Strip Chart Recorder with 30 day paper roll installed
- NEMA 4X cover for Chart Recorder
- Chemical tank auto fill
- Pager notification on alarm
- E-mail notification on alarm
- Electronic pH data logging (32,000 record capacity)
- Pump Discharge or Non Compliance Discharge Prevention

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.

Wastech Controls & Engineering, Inc. is the industry leader in custom design, engineering, and manufacturing of a wide variety of industrial control, state-of-the-art turn-key systems, in the areas of neutralization, chemical handling and process automation. Whether your project is large or small, we have the knowledge and capability to assist you with the most efficient, cost-effective, custom-designed system that best suits your operation.



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