

## LabDELTA<sup>®</sup> CONCENTRATED pH ADJUSTMENT SYSTEMS



The LabDELTA<sup>®</sup> Concentrated pH adjustment system is a skid-mounted system designed for neutralizing small-volumes of concentrated laboratory wastewater. This system includes holding tanks for storing both acidic and caustic wastewater. The wastes are alternately added in small increments to a reaction tank containing a heel of water. Once level is made in the reaction tank and the wastewater is neutralized it is discharged to the sewer. If a waste is depleted during a treatment cycle, the system automatically switches to using chemical reagents for pH neutralization.

### Specifications

- Inlet pH ranges of pH < 1 and pH > 13
- Inlet temperatures up to 160 °F
- Double contained waste and chemical tanks
- Skid-mounted design, ready to install
- Factory piped, wired, and tested before shipment
- Indoor installation

### Standard Features

- 5-gallon concentrated waste holding tanks
- 5-gallon batch reaction tank
- 5-gallon chemical reagent tanks
- Pre-wired UL-Listed remote control panel
- NEMA 4 powder-coated steel enclosure
- PLC-based control system with 7" color touchscreen HMI with built-in remote access via Ethernet
- Dry contacts for common alarm and pH excess time out of range
- Run permissive for remote enable/disable
- pH probe in reaction tank
- Discharge pH logging
- PVC metering pumps
- Double containment with leak switch

### Utility Requirements

- 115 VAC, 1-PH, 60 Hz, 15 amps
- City Water: 0.5 GPM @ 10 PSI

### Optional Features

- Acidic waste only treatment systems
- Caustic waste only treatment systems
- Pumped or gravity discharge



**ORDERING INFORMATION**

|                            |  |    |         |
|----------------------------|--|----|---------|
| LDX                        | LabDELTA® Concentrated                                     |    |         |
|                            | <b>Discharge Type (Choose One)</b>                         |    |         |
| -G                         | Gravity Discharge  |    |         |
| -P                         | Pumped Discharge   |    |         |
|                            | <b>Type of Chemical Addition (Choose One)</b>              |    |         |
| -A                         | Acid Addition (for high pH wastewater, pH >13)             |    |         |
| -B                         | Acid and Caustic Addition (for wastewater pH > 13 and < 1) |    |         |
| -C                         | Caustic Addition (for low pH wastewater, with pH < 1)      |    |         |
| <b>Example Part Number</b> |  |    |         |
| LDX                        | -G   | -B | LDX-G-B |

**DIMENSIONS AND TECHNICAL INFORMATION**

| Part Number | Dimensions |     |     |       | Dry Weight | Operating Weight |
|-------------|------------|-----|-----|-------|------------|------------------|
|             | A          | B   | C   | D     |            |                  |
| LDX-G-A/C   | 40"        | 29" | 38" | 11.5" | 200 lbs    | 375 lbs          |
| LDX-P-A/C   | 40"        | 29" | 38" | 33"   | 205 lbs    | 380 lbs          |
| LDX-G-B     | 60"        | 29" | 38" | 11.5" | 350 lbs    | 625 lbs          |
| LDX-P-B     | 60"        | 29" | 38" | 33"   | 355 lbs    | 630 lbs          |

