

ProDELTA™ CONCENTRATED pH ADJUSTMENT SYSTEMS



Shown: PDX-50-DC-B-IM-3B-N4. 50 Gallon concentrated batch system with caustic and acid addition, reaction tank double containment, gravity discharge, 230 VAC control panel, IDEC PLC, and Maple HMI.



Shown: PDX-100-DC-C-IM-3B-N4-HX-FL. 100 Gallon concentrated batch system with caustic addition, reaction tank heat exchanger, pumped discharge, 230 VAC control panel, IDEC PLC, and Maple HMI.

The ProDELTA™ Concentrated system is a compact skid-mounted pH adjustment system designed for neutralizing concentrated industrial wastewater. These systems include 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
- 50 and 100 gallon batch systems available
- 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

- UL-Listed control panel
- NEMA 4 powder coated steel control panel
- PLC-based control system with color touchscreen HMI
- Dry contacts for common alarm and pH excess time out of range
- Run permissive for remote enable/disable
- pH probe in reaction tank
- PVC metering pumps
- Seismic tie-down brackets

Utility Requirements

- Power: See power requirement options on page 2
- City water: 5 GPM @ 10 PSI

Optional Features

- Acidic waste only treatment systems
- Caustic waste only treatment systems
- Heat exchanger for reaction tank
- Pumped or gravity discharge
- Double contained reaction tank
- Discharge flow meter with totalizer

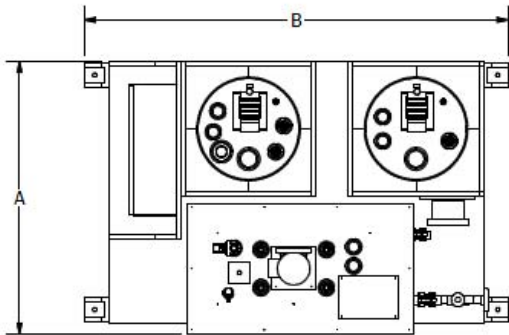
ORDERING INFORMATION

PDX	ProDELTA™ Concentrated								
Reaction Tank Operating Volume (Choose One)									
-50	50 Gallons (supplied with 50 gallon waste holding tanks)								
-100	100 Gallons (supplied with 100 gallon waste holding tanks)								
Type of Containment for Reaction Tank(Choose One)									
-SC	Single Containment								
-DC	Double Containment; Includes Leak Switch and Drain Valve								
Type of Discharge (Choose One)									
-G	Gravity Discharge								
-P	Pumped Discharge								
Type of Chemical Addition (Choose One)									
-A	Acid Addition (for high pH wastewater, pH > 13)								
-B	Acid and Caustic Addition (for wastewater pH > 13 and pH < 1)								
-C	Caustic Addition (for low pH wastewater, pH < 1)								
Control Option (Choose One)									
-IM	IDEC PLC with 7" Maple HMI								
-AM	Allen-Bradley MicroLogix PLC with 7" Maple HMI								
-AB	Allen-Bradley MicroLogix PLC with 10" PanelView Plus HMI								
-AX	Allen-Bradley CompactLogix PLC with 10" PanelView Plus HMI								
Power Requirements (Choose One)									
-1	115 VAC / 1 / 60 Hz								
-2A	208 VAC / 1 / 60 Hz								
-2B	230 VAC / 1 / 60 Hz								
-3A	208 VAC / 3 / 60 Hz								
-3B	230 VAC / 3 / 60 Hz								
-4	460 VAC / 3 / 60 Hz								
Enclosure Rating (Choose One)									
-N4	NEMA4 – Powder Coated Carbon Steel								
-N4XS	NEMA4X – 304 Stainless Steel								
Options (Choose Any)									
-HX	Heat Exchanger for Reaction Tank								
-FL	Discharge Line Flow Meter								
-DL	Data Logger (pH), Includes Flow w/ "FL" Option								
Example Part Number									
PDX	-50	-DC	-P	-B	-IM	-4	-N4	-HX	PDX-50-DC-P-B-IM-4-N4-HX

DIMENSIONS AND TECHNICAL INFORMATION

Part Number	Dimensions			Dry Weight	Operating Weight
	A	B	C		
PDX-50-A/C	50"	78"	67"	950 lbs	1900 lbs
PDX-100-A/C	55"	78"	67"	1100 lbs	2400 lbs
PDX-50-B	50"	113"	67"	1450 lbs	2900 lbs
PDX-100-B	55"	113"	67"	1600 lbs	3450 lbs

PDX-50



PDX-100

