

## ProDELTA™ BATCH pH ADJUSTMENT SYSTEMS



Shown: PDB-50-SC-P-B-IM-1-LR. 50 gallon batch system, acid and caustic addition, 115 VAC, IDEC with Maple HMI



Shown: PDB-500-DC-P-B-IM-4-LR-FL. 500 gallon batch system, acid and caustic addition, discharge flow meter, 460 VAC, IDEC with Maple HMI

The ProDELTA™ batch system is a compact skid-mounted pH adjustment system designed for neutralizing process wastewater. Batch systems include an optional holding tank that stores wastewater before being transferred to the reaction tank. Batch systems use one active treatment stage along with effluent pH monitoring to ensure that the wastewater will be neutralized to the required discharge pH before entering the sewer line.

### Specifications

- Single stage treatment systems for pH range 2 - 12
- 50, 100, 250, 500 and 1,000-gallon batch models available
- Inlet temperatures up to 160°F
- Fabricated polypropylene tanks and skid
- 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, influent permissive, and pH out of range
- Run permissive for remote enable/disable
- pH probes in reaction tank and discharge piping
- PVC metering pumps
- Seismic tie-down brackets
- Metering pumps mounted on polypropylene pump shelves
- Low level switch for customer-supplied chemical drums
- Pumped discharge (30' TDH)

### Optional Features

- Acidic waste treatment systems
- Caustic waste treatment systems
- Pumped or gravity discharge
- Double contained tanks (includes leak detection)
- Discharge flow meter with totalizer
- Digital data logger for discharge pH and/or flow
- Installed spare for pumps
- Holding tank twice the capacity of reaction tank (not available for the 1000 gallon batch system)

ORDERING INFORMATION										
PDB	ProDELTA™ Batch									
<b>Reaction Tank Operating Volume (Choose One)</b>										
-50	50 Gallons (Can be supplied with optional 100 gallon Holding tank)									
-100	100 Gallons (Can be supplied with optional 200 gallon Holding tank)									
-250	250 Gallons (Can be supplied with optional 500 gallon Holding tank)									
-500	500 Gallons (Can be supplied with optional 1000 gallon Holding tank)									
-1000	1000 Gallons (Holding tank sold separately with pump skid)									
<b>Type of Containment (Choose One)</b>										
-SC	Single Containment									
-DC	Double Containment; includes Leak Switch and Drain Valve									
<b>Type of Discharge (Choose One)</b>										
-G	Gravity Discharge									
-P	Pumped Discharge									
<b>Type of Chemical Addition (Choose One)</b>										
-A	Acid Addition (for high pH wastewater, between 7 - 12)									
-B	Acid and Caustic Addition (for wastewater pH between 2 - 12)									
-C	Caustic Addition (for low pH wastewater, between 2 - 7)									
<b>Control Option (Choose One)</b>										
-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									
<b>Power Requirements (Choose One)</b>										
-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									
<b>Enclosure Rating (Choose One)</b>										
-N4	NEMA4 - Powder Coated Carbon Steel									
-N4XS	NEMA4X - 304 Stainless Steel									
<b>Pump Location (Choose One)</b>										
-LR	Left									
-RL	Right									
<b>Options (Choose Any)</b>										
-HT	Holding Tank (Twice capacity of reaction tank)									
-FL	Discharge Line Flow Meter									
-DL	Data Logger (pH), Includes Flow w/ "FL" Option									
-ET1	One Transfer Pump Between Holding and Reaction Tanks									
-ET2	Two Transfer Pumps Between Holding and Reaction Tanks (one operating, one spare)									
-DT2	Two Discharge Pumps (one operating, one spare)									
<b>Example Part Numbers</b>										
PDB	-50	-DC	-P	-B	-AB	-4	-N4	-LR	-FL	PDB-50-DC-P-B-AB-4-N4-LR-FL