WASTECH
CONTROLS & ENGINEERING, INC.

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OMEGA CONTINUOUS pH ADJUSTMENT SYSTEMS

Shown: OMEGA-10-2-SC-G-B-T-IM-1-LR. 10 gpm system, 2 reaction stages, acid and caustic addition, chemical day tanks, 115 VAC IDEC with Maple HMI control panel.

Shown: OMEGA-50-2-SC-G-B-M-IM-1-LR. 50 gpm system, 2 reaction stages, acid and caustic addition, chemical metering pump shelf, 115 VAC IDEC with Maple HMI control panel.

The OMEGA continuous system is a skid-mounted pH adjustment system designed for neutralizing process wastewater. Continuous systems use one or two active treatment stages 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 3 - 11
- Two stage treatment systems for pH range 2 - 12
- 10, 20, 30, and 50 gpm 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 enclosure
- 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 tanks and monitoring tank
- PVC metering pumps
- Seismic tie-down brackets
- Gravity discharge

Optional Features

- Acidic waste treatment systems
- Caustic waste treatment systems
- Pumped discharge with two pumps (30’ TDH)
- Double contained tanks (includes leak detection)
- Leak switch for chemical tank double containment (with drain valve)
- Out-of-Compliance prevention system
- Discharge flow meter with totalizer
- Digital data logger for discharge pH and/or flow
- Custom designs for outdoor installation including winterization

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OMEGA CONTINUOUS

ORDERING INFORMATION											
OMEGA CONTINUOUS											
	Flow Rate (Choose One)										
	-10	10 Gallons Per Minute									
	-20	20 Gallons Per Minute									
	-30	30 Gallons Per Minute									
	-50	50 Gallons Per Minute									
		Number of Reaction Tanks (Choose One)									
		-1	One Reaction Tank (for wastewater pH 3 - 11)								
		-2	Two Reaction Tanks (for wastewater pH 2 - 12)								
			Type of Containment (Choose One)								
			-SC	Single Containment for Reaction Tanks							
			-DC	Double Containment for Reaction Tanks; 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, between 7 - 12)					
					-B	Acid and Caustic Addition (for wastewater pH between 3 - 11, or 2 - 12)					
					-C	Caustic Addition (for low pH wastewater, between 2 - 7)					
						Chemical Storage (Choose One)					
						-T	Chemical Day Tank(s) (80 Gallon Capacity)				
						-M	Metering Pump Shelf (customer to provide drums or totes)				
							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			
								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		
									Flow Direction (Choose One)		
									-LR	Left to Right	
									-RL	Right to Left	
										Options (Choose Any)	
										-LK	Leak Switch for Chemical Tank Double Containment, with Drain Valve
										-OC1	Out-of-Compliance Prevention w/ 1 Transfer Pump
										-OC2	Out-of-Compliance Prevention w/ 2 Transfer Pumps
										-FL	Discharge Line Flow Meter
										-CC	Outdoor Rain Cover for Chemical Tanks
										-DL	Data Logger (pH), Includes Flow w/ "FL" Option

Example Part Numbers											
OMEGA	-20	-1	-SC	-G	-C	-T	-IM	-1	-LR	-FL	OMEGA 20-1-SC-G-C-T-IM-1-LR-FL
OMEGA	-50	-2	-DC	-P	-B	-M	-AB	-4	-RL	-OC-FL	OMEGA 50-2-DC-P-B-M-AB-4-RL-OC-FL