

OMEGA™ pH SYSTEMS



Shown: OMEGA-10-2-B-T-R-1, 10 gpm system, 2 reaction stages, acid and caustic addition, chemical day tanks, 120 VAC relay based control



Shown: OMEGA-20-2-B-T-R-1, 20 gpm system, 2 reaction stages, acid and caustic addition, chemical day tanks, 120 VAC relay based control

The OMEGA™ is a skid mounted pH neutralization system that is designed for neutralizing process waste water. Continuous systems use one or two active treatment stages along with effluent pH monitoring to ensure that the waste water will be within the required discharge pH before entering the sewer line.

Specifications:

Treatment Capacity

- pH range 3—11 Single Treatment Stage Systems
- pH range 2—12 Dual Treatment Stage Systems
- Inlet temperatures up to 160 F
- 10, 20, 30, and 50 gpm models available
- Fabricated polypropylene tanks and skid
- Skid mounted design, ready to install
- Indoor installation
- Factory piped, wired and tested before shipment

Standard Features

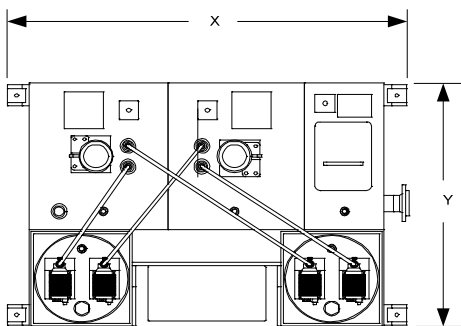
- UL Listed control panel
- Relay based control system
- NEMA 4 powder coated steel control panel
- Fabricated polypropylene tanks and skid
- 120 VAC, 1 phase 60 Hz (10 and 20 gpm)
- 230VAC/480VAC, 3 phase 60Hz (30 and 50 gpm)
- Dry contacts for common alarm and influent permissive signals
- Seismic tie down brackets

Optional Features

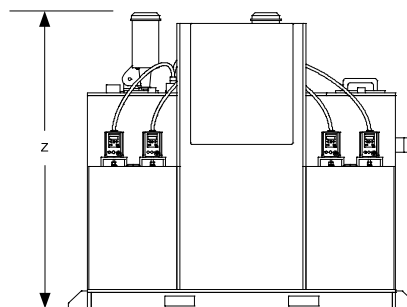
- PLC based control system with color touch screen HMI
- Acidic waste only systems
- Caustic waste only systems
- Double containment for reaction tanks (includes leak detection)
- Leak switch for chemical tank double containment (with drain valve)
- Out of compliance prevention system
- Discharge full line magnetic flow meter with totalizer
- Inkjet strip chart recorder for discharge pH and or flow
- Digital data logger for discharge pH and or flow.
 - Front USB port for CompactFlash™ cards up to 2 Gigabytes

ORDERING INFORMATION

OMEGA	
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 waste water pH between 3 and 11)
-2	Two Reaction Tanks (for waste water pH between 2 and 12)
Type of Chemical Addition (Choose One)	
-A	Acid Addition (for high pH waste water, between 7 and 12)
-B	Acid and Caustic Addition (for pH waste water between 3 - 11, or 2 - 12)
-C	Caustic Addition (for low pH waste water, between 2 and 7)
Chemical Storage (Choose One)	
-T	Chemical Day Tank(s) 55 Gallon Capacity
-M	Metering Pump Shelf (Customer to Provide Drums or Totes)
Control Option (Choose One)	
-R	Relay Based Control Panel (-10 and -20 only without OC)
-P	PLC Based Control Panel
Power Requirements (Choose One)	
-1	115 VAC 1 pH 60 Hz (-10 and -20 only without OC)
-2	208 VAC 1 pH 60 Hz
-3	230 VAC 3 pH 60 Hz
-4	460 VAC 3 pH 60 Hz
Options (Choose Any)	
-DC	Double Containment for Reaction Tanks, includes Leak Switch and Drain Valve
-LK	Leak Switch for Chemical Tanks, with Drain Valve
-OC	Out of Compliance Prevention
-FL	Discharge Line Flow Meter
-CR	Chart Recorder (pH), Includes Flow if the "FL" Option is Selected
-DL	Data Logger (pH), Includes Flow if the "FL" Option is Selected
Example Part Number	
OMEGA	-10 -1 -A -T -R -1
OMEGA	-50 -2 -B -M -P -3 -DC -LK -OC-FL-CR-DL



PLAN VIEW



ELEVATION VIEW

Part #	Length X (in)	Width Y (in)	Height Z (in)	Dry Weight (lbs)
OMEGA 10	90	58	75	1100
OMEGA 20	95	78	80	1700
OMEGA 30	115	86	95	2400
OMEGA 50	120	90	95	3500