

NSP-500

NEUTRALIZATION SYSTEM

FIBERGLASS AND HDPE CONSTRUCTION

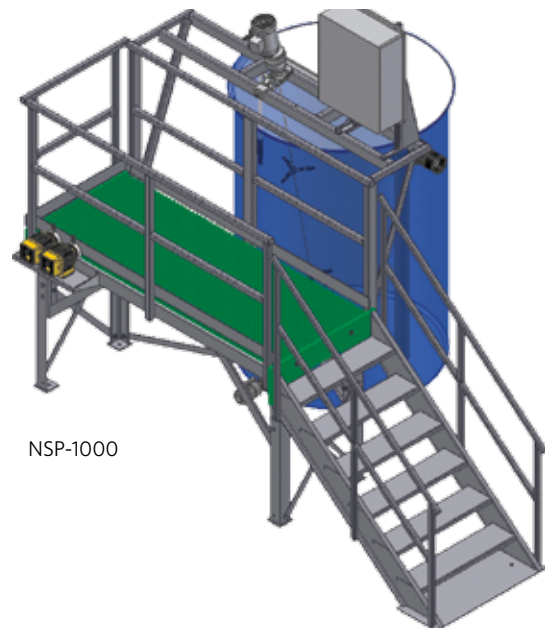
The Neutralization NS (fiberglass tanks) and NSP (HDPE tanks) systems are typically used as final pH adjustment steps following conventional wastewater treatment or microfiltration systems. They include one reaction tank that is skid-mounted or supplied with a catwalk frame and completely piped and wired. The systems are designed to adjust the pH either up, down or both.

The basic neutralization system configuration has the tank equipped with one mixer, 1-2 chemical pumps, and one pH meter. On NS/NSP systems less than 1,000 gallon (3.8 m³) capacity, the units are completely skid-mounted.

The skid frame supports the mixer, probes and chemical pump. An additional chemical metering pump is available as an option. The electrical control box, piping manifolds, conduit and wiring harnesses are also attached to this frame. When necessary, steps are supplied for operator access to the system.

Features

- Fully assembled at the factory
- Factory tested
- Units are either skid-mounted or catwalk integrated
- Units are match marked for ease of reassembly
- Rapid installation assured by skidded assemblies and mistake proof electrical connections



NSP-1000

NEUTRALIZATION SYSTEM

Neutralization System					
Model Number	NS/NSP-250	NS/NSP-500	NS/NSP-1000	NS/NSP-2000	NS/NSP-3000
Number of Tanks	One	One	One	One	One
Tank Material	FRP/HDPE	FRP/HDPE	FRP/HDPE	FRP/HDPE	FRP/HDPE
Tank Volume	250 gallons 0.95 m ³	500 gallons 1.9 m ³	1,000 gallons 3.8 m ³	2,000 gallons 7.6 m ³	3,000 gallons 11.4 m ³
Type	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical	Vertical Cylindrical
Method of Construction	Skidded	Skidded	Catwalk-Mounted	Catwalk-Mounted	Catwalk-Mounted
Recommended Through-Put	20 gpm 4.5 m ³ /hr	40 gpm 9.1 m ³ /hr	80 gpm 18.2 m ³ /hr	165 gpm 37.5 m ³ /hr	240 gpm 54.5 m ³ /hr
Mixers	1/4 HP	1/3 HP	1/2 HP	1 HP	2 HP

Valves and Piping Connections					
Outlet Connection	3" Male Pipe Stub	4" Male Pipe Stub	4" Male Pipe Stub	6" Male Pipe Stub	8" Male Pipe Stub
Drain Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve	2" True Union Ball Valve

Skid Requirements					
Mounting	Each tank is mounted on its own skid. Skids are interlocked for ease of reassembly.	Each tank is mounted on its own skid. Skids are interlocked for ease of reassembly.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.	Tanks are floor mounted with mixers and all other components mounted off the catwalks.
Paint	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish	Near white metal sandblast + 2-3 mil primer + 3-5 mil finish

Dimensions					
(L x W x H)	80" x 55" x 85" 2,032 x 1,397 x 2,159 mm	80" x 55" x 110" 2,032 x 1,397 x 2,794 mm	100" x 120" x 145" 2,540 x 3,048 x 3,683 mm	100" x 145" x 145" 2,540 x 3,683 x 3,683 mm	100" x 150" x 170" 2,540 x 3,810 x 4,318 mm
Shipping Weight	879 lbs 399 kg	1,266 lbs 574 kg	2,445 lbs 1109 kg	2,717 lbs 1,232 kg	3,191 lbs 1,447 kg
Operating Weight	2,964 lbs 1,344 kg	10,785 lbs 4,892 kg	One	One	One



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