

Series 400 Batch Dosing Odor Control System

US Patent #5,312,594

Specifications

Wall Mounted Unit

Height:	40"
Width:	20"
Depth:	12"
Shipping Weight:	48lbs.
Operating Weight:	48 lbs.
Operating Pressure:	100 to 150 psi
Pump Size:	Diaphragm-1 to 8 gph
Motor Size:	Fractional hp

Utilities

Electrical:	120V, 1Ø, 60 hz, 4 amp
Water:	None required
Drain:	None required



Applications

Municipal Wastewater Sites

- Wet Wells and Force Mains
- Chemical Batch Dosing of Tanks

Industrial Sites

- Wet Wells and Force Mains
- Chemical Batch Dosing of Tanks

System Overview

The Series 400 Batch Dosing System is built under a process patent that provides for continuous chemical batch dosing of an evacuated wet well or tank so that a predetermined amount of chemical is added prior to the tank or wet well filling. The system offers the benefits of accurate control of the chemical addition and no dosing during high flow situations when odor control is not required. By treating the wet well influent, odor control in the force main is also accomplished.

A properly sized diaphragm metering pump with a timer arrangement quickly adds the required amount of chemical following the wet well's evacuation. The maximum volume of flow that can be treated is based on the size of the wet well relative to its fill time. Typically, the Series 400 applications are maximum flows of 200,000 gpd.

In wastewater, the prime use of this type of system is the control of hydrogen sulfide emission. Commonly fed chemicals are nitrates, iron salts, oxidants and pH modifiers. In low flow applications, 10,000 gpd or less, NuTech offers its Pond-X^{®2} Odor Eliminator, a blend of metallic ions that react both H₂S and the related organic odors. The Pond-X^{®2} product is non-hazardous and is preferred by developers for the start-up of a pump station in a new development. The system is portable and can be moved from one start-up to the next.

Technical Experts in Odor Control

