

Wastewater Neutralization Systems

Mech-Chem Associates, Inc. has a unique series of automated wastewater pH neutralization systems. The systems are designed to handle and process a variety of acid and alkaline waste solutions.

These pH neutralization systems vary in size from 10 gal to 5,000 gal. The smallest system is designed to fit in the bottom of a lab hood.

A filter can be added to the smaller systems if solids removal is required for your application. Sludge thickening and filter press options are available for the larger systems



Chemical Applications

Examples of the acid and alkaline solutions that can be treated are the following:

- Hydrochloric (HCL)
- Hydrofluoric (HF)
- Nitric (HNO₃)
- Sulfuric (H₂SO₄)
- Methylsulfonic Acid (CH₃SO₂OH)
- Sodium Hydroxide (NaOH)
- Potassium Hydroxide (KOH)

System Design

The pH neutralization systems consist of the following components:

- Equalization/ neutralization tank
- pH meter/controller
- Proportional metering pump
- Treatment chemicals
- Double diaphragm pump
- Control panel

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