pH Neutralization Systems

Sustainable Solutions for Industry



Our pH Neutralization System is designed to meet pH, heavy metals, solids, and other discharge limits.

Beta's process combines the best in environmental technology with the best return on investment. Sustainable solutions for both environmental and financial goals.

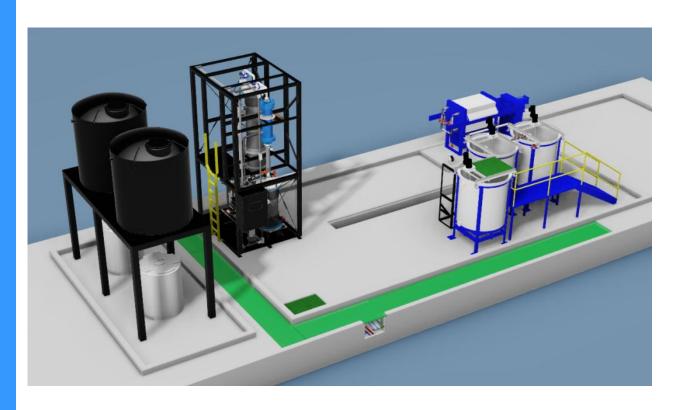
Cost benefits

Quick return on investment, long life expectancy
Reduces chemical consumption
Compact design integrates into existing facilities
Unique design reduces energy consumed



Enhanced Process Control

Meets pH, heavy metals, solids, and discharge limits Microprocessor control minimizes operator time HMI tracks operations & compiles operating history



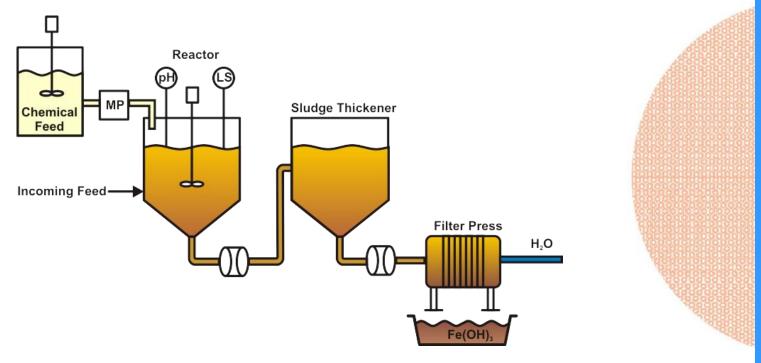
Operation

Concentrated rinse or $FeCl_2$ is pumped or drained to the Reactor tank for pH control. The mixer and ozone generator are continuously operated to insure proper oxidation levels and homogenous mixtures of iron hydroxides and water. Sodium Hydroxide (NaOH) is metered into the In-ground Reactor to adjust the pH. Ozone is continuously added for oxidation to $Fe(OH)_3$.

From the bottom of the Reactor, sludge is pumped to the Sludge Thickener for solids separation. The thickened solids are then pumped through the Filter Press where the sludge cake is dumped into the collection hopper and the filtrate is returned to the Reactor. Clarified solution from the Sludge Thickener returns to the Reactor tank.

This batch process is simple and easy to operate. A control panel is supplied to provide motor control, pH control, and chemical feeding as well as pump operation control. pH and ORP displays and alarms are visible to the operator.

The system is designed to remove the iron from solution and meet any pH limits that might be required by a monitoring agency. The system is shipped as modular components for assembly at your plant.







Sustainable solutions

Beta designs, manufactures, installs, and supports its own resource recovery equipment. We provide cost effective, robustly engineered systems that recover your assets and help you attain your company's environmental and financial goals.

U.S.A. (headquarters) 6950 SW 111th Ave, Beaverton, OR 97008 phone: 503-646-3399, fax: 503-627-0888 Email: contact@betacontrol.com

BRAZIL, Beta Systems Brazil Mr. Rodrigo Frigo, Phone: 55-(44) 3028-3335 rodrigof@betacontrol.com

CHINA, Beta Systems China Ms. Smile Lee, Phone: 86-411-859-12755 smile.lee@westechchina.com

INDIA, Leak-Proof Steel Plant Equipment Mr. Arvind Joshi, Phone: 91 22 2636 1737 speqindia@yahoo.com

MALAYSIA, East West Wire Technologies Mr. Lim Tee Hooi, Phone: 603-5162 3846 eastwestwire@yahoo.com.my

MEXICO, Sidermetal, SA de CV Mr. Luis Pietra Santa Phone: 52-(55) 1107-7582 / 83 lps@tecnometalweb.com

REPUBLIC OF S. AFRICA, VJL Technologies Ms. Marinda J van Rensburg Phone: 27(0)12 345 2215 marindaj@vjl.co.za

TAIWAN, Yongsun Corporation Mr. Frank Shy, Phone: 886-2-2881-7288 frankshy@ms24.hinet.net

TURKEY, ANI Zinc Oxide & Metal Ltd. Mr. Isik Sapci, Phone: 90 312 2875510 isik@animetal.com.tr

UNITED KINGDOM, Chem Resist Groupe Phone: 44-1924-499466 enquiry@chemresist.com



