

美國BETA\大連永尚公司 2005年產品線

Product Line 2005

Environmental equipment for wire, tube, sheet steel, galvanizing

About Beta Control Systems, Inc.



Beta Control Systems, Inc., founded in 1980, develops cost effective, state-of-the-art resource recovery systems for industry. From the beginning we have designed, manufactured, installed, and supported our own equipment.

Beta Control Systems, Inc. has focused on providing the best technology for the application, and prides itself in thoughtfully engineered designs and professional service. The staff at Beta remains acutely aware that the technologies we take for granted are novel to our new customers. This is why we provide extensive training for the new operators and maintenance personnel.

美國BETA公司專精於廢酸回收處理 (永尚公司型錄背面)



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※鹽酸回收再生系統

Hydrochloric Acid Recovery

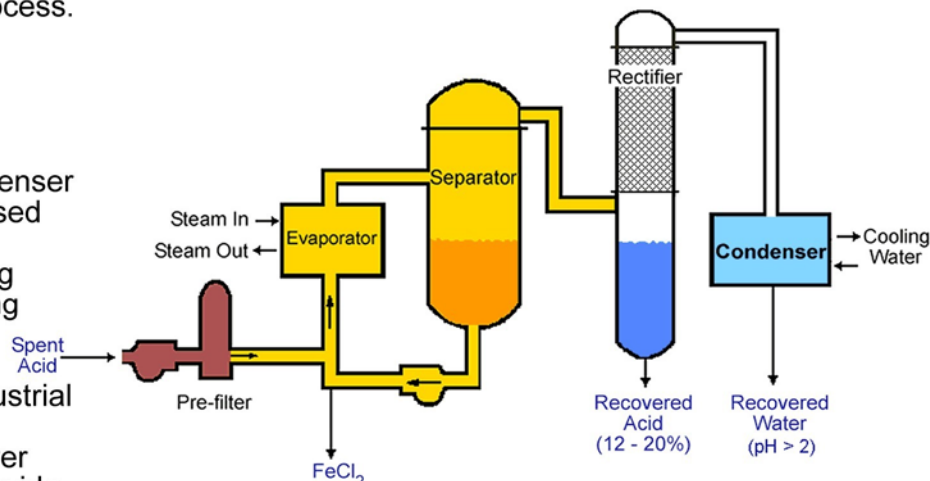


Spent pickling acid is pumped to the Separator tank where it is heated. When the proper solution temperature/concentration is reached, a ferrous chloride concentrate is withdrawn slowly from the loop.

Forced by expansion, the acid and water vapors are driven from the Separator and into the Rectifier. The concentration of acid is controlled in this step to return excellent quality acid to the pickling process.

The water vapor, stripped of acid, continues its journey into the Condenser where it is sub-cooled and condensed to nearly pure water. This water is reused as rinse water in the pickling process or is returned to the pickling tank with the concentrated acid.

The system is controlled by an industrial computer with special software designed and perfected by Beta over many years and applications worldwide.



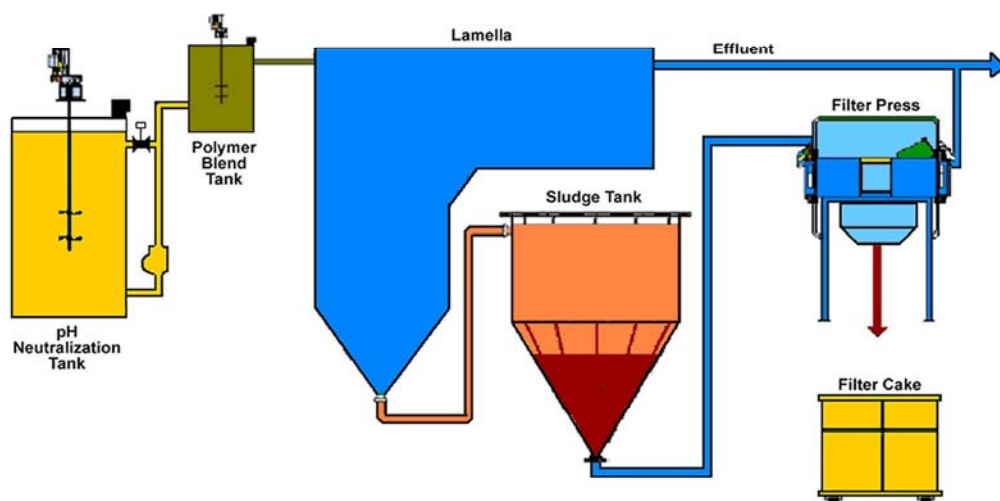
※酸鹼中和系統

pH Neutralization



The system is designed to meet pH, heavy metals, solids, and other discharge limits presently specified by the sewer discharge regulations. Systems are custom designed for each application.

A pH Neutralization system equipped with surge tank, chemical feed tanks, pH reactor, polymer flocculator, inclined settler, sludge thickener, filter press, and control automation.



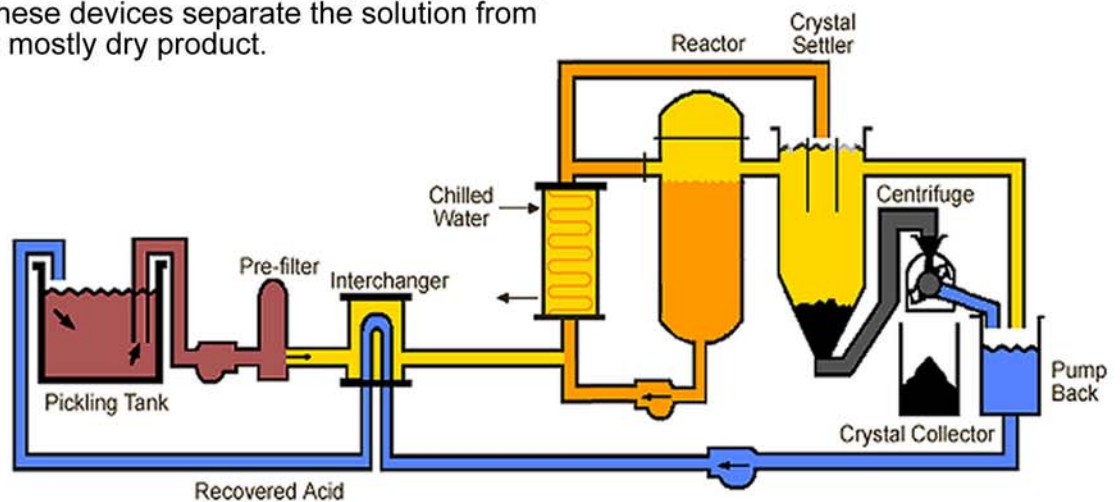
※硫酸回收再生系統

Sulfuric Acid Recovery

Pickling acid is pumped from the tank and fed through a Pre-filter to remove gross particles. The acid enters the Interchanger where the temperature is reduced by chilled acid (returning from the end of the process.)

The pre-chilled spent acid enters the Reactor. A portion of the solution is then diverted to the Crystal Settler. The crystals settle to the bottom while the clarate (solution without iron crystals) rises to the top of the tank. The overflow port allows the clarate to flow into the pump back station where it is pumped through the Interchanger and back to the pickling tank as recovered acid.

The crystals are gravity fed through the bottom of the Crystal Settler and pumped to a gravity filter or Centrifuge (depending upon system size.) These devices separate the solution from the crystal and yield a mostly dry product.

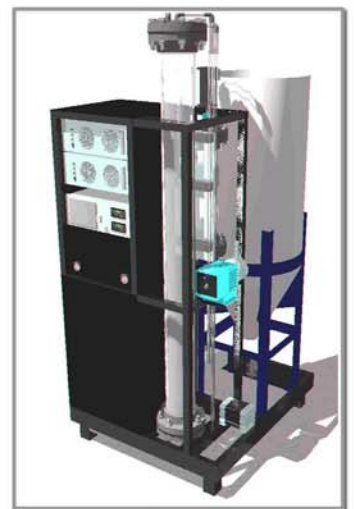
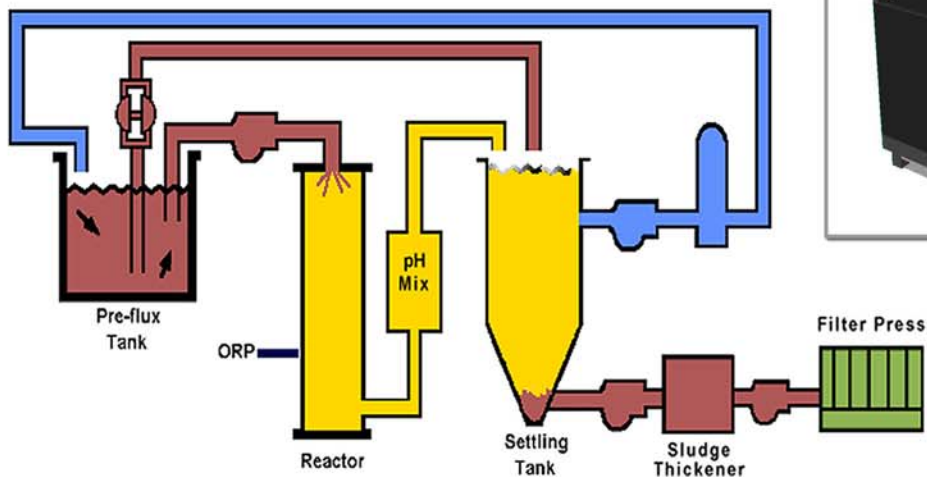


※助鍍劑回收再生系統

Pre-flux Regeneration

Continuously removes iron and filterable solids from pre-flux solutions. The system adjusts solution pH and specific gravity while converting the dissolved iron to a filterable, solid form. An air driven diaphragm pump drives the iron and other insoluble solids in the solution through a filtering system.

The iron and other solids are separated from the solution, returning regenerated pre-flux solution back to the process tank.



A Step Toward Acid Recovery

To obtain a proposal for acid recovery, please request a questionnaire from Beta Control Systems, Inc. We need basic information about your process in order to properly size an acid recovery system that will handle current production levels.

In addition to a free proposal, we also offer assistance in preparing your Return on Investment analysis. Most of our customers experience a two-year payback or better.

Beta Equipment Around the World



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