RESINTECH® INC.

INNOVATIONS IN ION EXCHANGE













Get the most from the resources you rely upon every day.

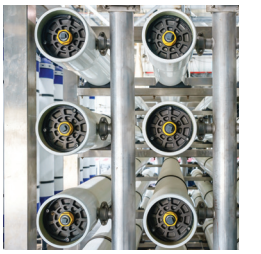
OVERVIEW

ResinTech's Regeneration Division offers a wide array of services that help commercial and industrial operators extend the life of their water and wastewater treatment resources.

In addition to providing offsite resin regeneration and RO membrane restoration services, we specialize in designing closed-loop wastewater recycling systems for the metal finishing and EDM industries. Our products help remove dissolved contaminants present in industrial aqueous environments and reduce water related expenses.







RESIN REGENERATION

As ion exchange resin collects contaminants from feed or wastewater, the media gradually becomes less efficient at attracting target ions. Eventually, the number of available site on the resin bead are exhausted and the media needs to be replaced with either "virgin media" or "regenerated" media.

Resin Regeneration is the process of removing collected contaminants off of the resin bead and restoring exhausted resin back to its proper ionic form for service. Proper regeneration can extend the life of your ion exchange resin for years and be far more economical that purchasing "virgin" media. But maximizing each regeneration cycle is a skill that takes years to master. Many operators don't have the time, the capabilities, or the experience to perform the task optimally. That's where we come in.

ResinTech's Regeneration Division (formerly known as ACM Technologies) specializes in restoring exhausted resin to its proper ionic form for service. Regeneration provides the customer with savings across the board from buying new media as well as the peace of mind that the waste is properly handled.

Ion exchange resins are used in a wide range of water treatment applications such as **deionization, softening, metals removal, electro-discharge machining (EDM)** and many more.

RO MEMBRANE CLEANING

Reverse osmosis (RO) membranes reject impurities but allow water to penetrate. Over time, particulate matter concentrates on the surface of the membranes reducing their efficiency. The under-performance of these "exhausted" membranes results in higher operating pressures, reduced output, poorer quality, and increased operating expenses.

Commercial RO membranes can exhaust in as little as 3 to 12 months (depending on the application), so continually replacing them can become a costly endeavor. Since the cost of membrane restoration is a fraction of the costs associated with new membranes, many operators have come to recognize the economic advantage of periodic cleaning over replacement.

ResinTech's Regeneration division specializes in restoring RO membranes used in industrial and commercial applications.

We combine system engineering with technical expertise to extend the life of your water and water treatment resources.

BENEFITS OF CLOSED-LOOP WASTEWATER RECYCLING

We design closed-loop systems to help operators reduce wastewater related expenses, improve quality, reduce risk, and increase profits.

Less Regulation

Closing the loop gives operators freedom from regulatory constraints because recycling your water means there is no water to discharge. That means no discharge permits or regulatory burdens and no more paying contract labs to analyze your water samples.

Improve Your Rinsing

Recycling your rinse water also returns clean DI water to your process. This prevents the spots that normally result from calcium and salt deposits and saves additional cost related to hand-drying drying product.

Reduce Expenses

Process water recycling reduces your operator, chemical, and energy costs associated with wastewater. Treatment expenses go down and profits go up. Best of all, eliminate those costly water bills and industrial sewer surcharges.

HELIX (METALS ELIMINATION SYSTEM)

The HELIX is a closed-loop solution that is pre-configured for plug & play operation. The system utilizes genuine ResinTech ion exchange media to target and recover specific heavy metal ions from wastewater streams. Clean, deionized water can then be returned to your process allowing you to use the same water continuously, only replenishing water lost to evaporation.

If you prefer to discharge, you can rest easy knowing your wastewater is always EPA compliant. Either way, the result is reduced costs associated with labor, chemicals, and sludge and slurry waste disposal.





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ABOUT RESINTECH

ResinTech has been a globally recognized leader in the field of ion exchange for water and wastewater treatment for almost 40 years. Our regeneration services division specializes in restoring exhausted resin to its proper ionic form for service. All regeneration processes are tightly controlled with separate regeneration lines for non-metal bearing resins as well. Each regenerated lot is quality tested to ensure the customer achieves the highest quality water and capacity. ResinTech operates regeneration plants on both the east and west coast and offers regeneration solutions for a full range of ion exchange media. Our system engineering and technical expertise combine to extend the life of your water and water treatment resources.

RESINTECH'S REGENERATION PLANT

344 Granary Road
Forest Hill, MD 21050 USA

RESINTECH'S BILLING OFFICE

1801 Federal Street
Camden, NJ 08105 USA

CALL **856.768.9600**
OR VISIT US ONLINE **RESINTECH.COM/REGENERATION-SERVICES**