

Maximize Resin Life & Performance with RTI's On-Site Maintenance Services

Ion exchange resin is the core component of most industrial water treatment systems. Just like a car engine needs regular oil changes to run efficiently, **your resin system requires routine maintenance** to deliver reliable performance.






Without proactive care, resins can become fouled—leading to reduced throughput, poor water quality, increased regeneration frequency, and eventually, premature resin replacement.

With **resin prices on the rise and longer lead times**, maintaining what you already have is more important than ever.

That's where Recirculation Technologies, LLC (RTI) comes in.

What Happens Without Regular Resin Maintenance?

Resin fouling and degradation occur gradually but can have severe impacts on plant operations:

-  **Reduced throughput** and lower flow rates
-  **Inconsistent or poor water quality**
-  **Increased chemical consumption and regeneration frequency**
-  **Shortened resin life and more frequent replacements**
-  **Higher operational and maintenance costs**

Routine maintenance **not only prevents these issues—it restores efficiency**, extending the working life of your resin and improving system reliability.

RTI's On-Site Resin Maintenance Services

RTI provides a full suite of on-site resin maintenance programs designed for industrial water systems across power generation, chemical manufacturing, pulp & paper, food & beverage, and municipal treatment facilities.

✓ Cation Resin Cleaning

Removes:

- External particulates (e.g., iron, silt)
- Internal hardness fouling (e.g., calcium, magnesium)

✓ Anion Resin Cleaning

Targets:

- External particulate fouling
- Internal organic contamination (e.g., tannins, natural organics)

✓ Resin Pump & Hold

Temporary removal and secure storage of resin for:

- Vessel repairs
- Internal inspections
- Emergency system maintenance

✓ Resin Installation

- Installed following manufacturer-recommended procedures
- Prevents layering errors and resin loss
- Minimizes downtime during commissioning or replacement

✓ Resin Separation

When cation resin migrates into an anion vessel due to lateral failure, RTI can:

- Recover the valuable anion resin
- Remove misplaced cation beads
- Restore system regeneration and performance

✓ Vessel Inspections

Performed during downtime or in conjunction with cleaning/installation:

- Lateral inspections
- Liner spark and hardness testing
- Spray pattern assessments
- Liner thickness measurement

Tailored Solutions That Save You Time & Money

RTI's on-site programs are **customized to match your system's resin type, age, fouling profile, and operational goals**. Each service is designed to:

- Improve regeneration effectiveness
- Reduce chemical and water consumption
- Extend resin service life
- Prevent unplanned downtime
- Postpone costly resin replacement

Who Should Use RTI's Maintenance Services?

Our on-site maintenance programs are ideal for:

- Systems that have not undergone cleaning in 12–24 months
- Plants experiencing inconsistent water quality or regeneration
- Facilities preparing for resin replacement but seeking alternatives
- Operators looking to optimize cost and resource use

Ready to Extend the Life of Your Resin?

Don't wait until your system's performance declines or resin replacement becomes unavoidable. Let RTI help you **protect your investment and keep operations running smoothly**.

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