

high purity ~ simple package ~ proven reliability

Recoflo® Water Softener

Eliminate biological fouling and increase throughput. In just four easy cycle steps, the Recoflo® Water Softener outperforms other softeners with superior efficiency, reduced costs, half the brine, and twice the throughput.

What is the Recoflo® Water Softener

Eco-Tec's Recoflo® Water Softener utilizes the next generation of ion exchange with compressed bed, counter-current technology. With the consistent philosophy of a simple package with proven reliability, the Recoflo® Water Softener produces softened water at lower operating and total installed costs.

The Recoflo® Water Softener can produce water with less than 0.1 mg/L total hardness using half of the brine required by other softeners. This high performance is the result of the rapid, proprietary, exchange kinetics of Recoflo®, that allows for the efficient use of brine and water while eliminating biological fouling.

How Does the Recoflo® Water Softener Work?

The Recoflo® Water Softener has proven, consistent performance with each of its key features offering **up to 2 times higher throughput rates** than other softeners:

Short bed height and small resin volume

Recoflo® resin beds are only 6 inches (15 cm) to 24 inches (60 cm) in depth, requiring only up to 15% of the resin volume required of conventional ion exchange systems.

Low resin exchange loading

Recoflo® uses less than 15% of the total exchange capacity of the resin compared to conventional ion exchange processes that use resin to near exhaustion.



Fine mesh resin

Recoflo® uses Eco-Tec specified resin with a resin bead particle diameter of one-quarter the size of resin used by conventional ion exchange systems.

Compressed resin beds

Recoflo® resin beds are at a state of compression at all times, with no freeboard.

Counter-current regeneration

Recoflo® uses counter-current regeneration to ensure that the cleanest and most effective, resin is at the bottom of the bed after regeneration.

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Features	Benefits
Short-bed height	50% less floor space required and up to 70% less headroom Better resin kinetics Easy maintenance
Small resin volume	Better resin kinetics Reduced replacement resin costs Less time required for resin replacement
Compressed resin bed	Maximizes regeneration efficiency, ensures flow distribution, reduces rinse requirements and provides longer resin life
Low resin exchange loading	Better resin kinetics Resin efficiency Longer resin life
Fine mesh resin	Better resin kinetics Reduced cycle times Stronger resin
Specifically designed piping	Eliminates “dead spots” and helps to prevent bacteria growth
Counter-current regeneration	Efficient resin Effective resin rinsing
Pre-assembled, skid mounted	Easy installation
Full factory pre-testing	Fast installation
Fully automated	Remote monitoring Reduced operator attention

Why Use a Recoflo® Demineralizer?

Operational impact through proven product quality with:

- Operating cost savings
- Maintenance savings
- Time savings
- Installation savings
- Space savings
- Chemical consumption savings
- Waste reduction savings



Contact Eco-Tec For More Details.

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