

high purity ~ simple package ~ proven reliability

Recoflo® Demineralizer

Reduce costs, reduce space requirements, and produce high purity water with innovative Recoflo® technology. Eco-Tec's Recoflo® Demineralizer offers proven efficiency, reduced waste generation, and low operating costs without the need for a mixed bed polisher.

What is the Recoflo® Demineralizer?

Eco-Tec's Recoflo® Demineralizer 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® Demineralizer produces high purity water at lower operating and total installed costs.

The Recoflo® Demineralizer can produce water with a conductivity **as low as 0.1 µS/cm** (10 megohm/cm resistivity) with less than 0.010 mg/L of silica using only cation and anion beds. This high performance is the result of the rapid and efficient proprietary exchange kinetics of Recoflo®, that eliminates the need for a mixed bed, reduces labour requirements, and removes the risk of resin cross-contamination.

How Does the Recoflo® Demineralizer Work?

The Recoflo® Demineralizer has proven, consistent performance with each of its key features offering **up to 5 times higher throughput rates** than other demineralizers:

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.



high purity ~ simple package ~ proven reliability

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.

SS-022-01-10.1



www.eco-tec.com



Eco-Tec Inc.
1145 Squires Beach Rd., Pickering, Ontario
Canada L1W 3T9
Tel: (905) 427-0077 Fax: (905) 427-4477
E-mail: ecotec@eco-tec.com

Prosep Technologies Limited
Unit 6A, Zone 4, Burntwood Business Park
Burntwood, Staffordshire, England WS7 3XD
Tel: +44(0)1543 675731 Fax : +44(0)1543 679484
Email: ptl@eco-tec.com

All statements, information and recommendations contained herein are, to our knowledge, true and accurate.
However, no guarantee or warranty is given, expressed or implied.

Nor shall any statement, information or recommendation constitute a representation unless set forth in an agreement signed by Eco-Tec.