

# RENIX

## What is RenixUIX™?

Uninterrupted Ion Exchange is a turnkey steady state ion exchange system. The basics on how the system works:

- 1** The single adsorption vessel is sized and filled with resin in accordance with the required process and performance specifications.
- 2** Resin adsorbs counter-currently to process fluid flow, while freshly regenerated resin is continuously returned to the top portion of the vessel, providing maximum resin efficiency.
- 3** Renix sizes and configures the system process to meet key operating parameters, and establishes a control point where steady state product quality is achieved.
- 4** Regeneration includes uninterrupted removal of loaded resin from adsorption followed by its transit through the regeneration process including sweeten off, regeneration, rinses, and resin conditioning stages where required by the specific application. The resin transit is controlled in steady-state using our unique dynamic seals.
- 5** Each configuration addresses the customer's technical and economic needs, and is determined by the demands of the process, fluid type, concentration of target ions, final product specifications, and key plant operating parameters.



Combining world-class research with practical engineering, Renix offers a logical solution to ion exchange processes; transforming industrial ion exchange to a Steady State operation – providing improved efficiency, lower cost of ownership, higher productivity and yield.

