

Ion Exchange

Source Water Purification and Rinse Water Recovery



Engineered for 24/7 Operation

For nearly 45 years, **KONTEK** has been the leading manufacturer of fully automated, self-regenerating ion exchange recovery systems.

REKON Systems have proven worldwide to be the most reliable and cost-effective method for removing dissolved heavy metals and salts from wastewater. Our industry leading onboard resin cleaning systems ensure longest resin life in the industry.

The **REKON** System produces high quality de-ionized water for recycling back to process rinse tanks, enhancing rinsing quality. 100% recovery of process rinse water.

CERTIFIED
ISO 9001



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KONTEK REKON Systems are implemented for 100% rinse water recovery and purification in applications where trace heavy metals and salt contaminants must be removed. The liquid waste volume produced by the regeneration cycle is typically 3% of the total volume of recycled water. The lowest regeneration waste production in the industry, guaranteed.

REKON Systems improve rinse quality, leading to greater finishing quality and extending process solution life.



Carousel and CIX System

Ion Exchange Wastewater Recovery De-Cat System

KONTEK REKON De-Cat systems reduce metal contamination concentrations to 0.05 mg/l or lower in most cases. Systems operate in a 3 column carousel configuration with a worker and polisher in use at all times

The De-Cat design places the freshly regenerated column in the polishing position following the partially loaded worker column. This ensures the highest level of polishing possible while maximizing the utilization of the resins' capacities.

- Ensures compliance when heavy metal discharge levels are stringent
- Selective polishing of targeted metal ions in treated effluent



Technical Specifications

- Standard system design flow rates from 10 to 600 GPM
- Duplex design ensures 100% recovery of waste/rinse water and 24/7 up-time for continuous operation
- Uses up to 50% less water than other designs
- Premium grade proprietary resins
- Standard organic removal systems
- Standard UV sterilization systems control biofilm organic growth
- Co-current or counter-current regeneration cycles available
- PLC controlled with colour touch screen HMI controls for real-time data collection and maximum flexibility
- Automatic volume control of the closed loop of recycled water
- Skid mounted modular design - customized designs available
- Optional automatic batch treatment, or continuous flow treatment systems, to treat non-recoverable wastewater and regeneration waste

Industries

- Metal recovery
- Metal finishing wastewater recycling
- semiconductor manufacturing
- printed circuit board industries

