

Electrodialysis reversal (EDR) is the same process, with the exception that the polarity of the DC power is reversed 2 to 4 times per hour. When the polarity is reversed, the desalted stream and brine stream compartments are also reversed. This alternating exposure of membrane surface to the product and brine streams provides a self-cleaning capability that enables desalting of scaling or fouling waters, and recovery of up to 90-95% of feed water.