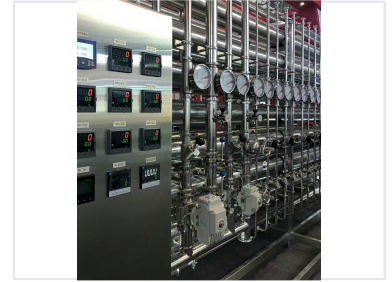


# Electrodeionization Water Purification System

This electrodeionization system purifies water using electricity, membranes, and ion exchange resins. It is constructed with stainless steel tanks, piping, and control panels.



## ADDITIONAL IMAGES



## System Overview

### Advanced Water Purification Technology

The Electrodeionization (EDI) system represents a modern approach to producing pure and ultra-pure water. Developed in the 1990s, this technology seamlessly integrates electrodialysis with ion-exchange processes. By utilizing the selective permeability of ion-exchange membranes and the ion-exchange capacity of resins, the system effectively removes salts from water. A key advantage is the continuous regeneration of resins using H<sup>+</sup> and OH<sup>-</sup> ions generated from water electrolysis, eliminating the need for chemical acid or alkali regeneration.

## Technical Features

Technology Type	Electrodeionization (EDI)
Regeneration Method	Continuous, Electrochemical, Chemical-Free

## System Components

### Key Hardware

- Ion-exchange membranes
- Ion-exchange resin beds
- DC power supply modules
- Stainless steel piping network
- Control panel

## Monitoring & Control

### Monitored Parameters

Conductivity • pH Level • Voltage • System Flow