

# Electrodeionization (EDI) System

Capacity: 100 - 20,000 LPH

Introducing the ROTEK SnowEDI / REDI / GEDI Series Electrodeionization Systems, a breakthrough in chemical-free deionization technology. These systems provide a cost-effective solution for achieving high-purity water across all flow rates.

With resistivity up to 18.2 M $\Omega$ ·cm, our EDI systems are reliable, efficient, and environmentally friendly, eliminating the need for chemicals and hazardous waste.

As a replacement for conventional mixed-bed ion exchange, ROTEK's EDI technology ensures seamless operation without the hassle of chemical regeneration, making it the ideal choice for modern high-purity water applications.



## ■ Key Features

- Achieves 18.2 M $\Omega$ ·cm water resistivity for industrial applications.
- Green technology with low operating costs and high recovery rates.
- Easy maintenance and small footprint for container installations.
- Continuous operation without regeneration.
- Modular, durable design with flexible interconnection and long lifespan.
- Direct discharge option for electrode stream.
- No concentrate recirculation.
- Thin-Cell efficient technology.
- Patented non-scaling technology.
- Patented Excellion membranes.



## Specification

### SnowEDI Series

Model	SnowEDI-100	SnowEDI-200	SnowEDI-500	SnowEDI-1000	SnowEDI-1800
Nominal Flow Rate (LPH)	100	200	500	1000	1800
Recovery Rate %	80-90	80-95	85-97	85-99	85-99
Input Conductivity (us/cm2)	2-15	2-15	2-15	2-15	2-15
Output Resistivity (MOhm)	16-18.2	16-18.2	16-18.2	16-18.2	16-18.2
Working Voltage Range (VDC)	48	100	150	200	300
Working Current Range (ADC)	0.2-2.0	0.2-2.0	0.2-2.0	0.2-2.0	0.2-2.0
Working Pressure (MPa)	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40
Clean Water Input /Output Port	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)
Concentrate Water Input/Output Port	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)

### REDI Series

Model	REDI-100	REDI-250	REDI-500	REDI-1000	REDI-2000
Nominal Flow Rate (LPH)	100	250	500	1000	2000
Recovery Rate %	70-80	80-90	85-90	90-95	90-95
Input Conductivity (us/cm2)	2-15	2-15	2-15	2-15	2-15
Output Resistivity (MOhm)	16-18.2	16-18.2	16-18.2	16-18.2	16-18.2
Working Voltage Range (VDC)	6-20	40-80	10-40	30-60	50-100
Working Current Range (ADC)	0.2-0.3	0.2-0.3	1.0-2.0	1.0-2.0	1.0-2.0
Working Pressure (MPa)	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40
Clean Water Input /Output Port	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)	1" (25mm)
Concentrate Water Input/Output Port	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)

### GEDI Series

Model	GEDI-3	GEDI-5	GEDI-10	GEDI-15	GEDI-20
Nominal Flow Rate (LPH)	3000	5000	10000	15000	20000
Recovery Rate %	85-95	85-95	85-95	85-95	85-95
Input Conductivity (us/cm2)	2-15	2-15	2-15	2-15	2-15
Output Resistivity (MOhm)	16-18.2	16-18.2	16-18.2	16-18.2	16-18.2
Working Voltage Range (VDC)	0-300	0-400	0-400	0-400	0-400
Working Current Range (ADC)	0-5.2	0-5.2	0-5.2	0-5.2	0-5.2
Working Pressure (MPa)	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40	0.15-0.40
Clean Water Input /Output Port	1" (25mm)	1.5" (25mm)	1.5" (25mm)	2" (25mm)	2.5" (25mm)
Concentrate Water Input/Output Port	1/2" (15mm)	1/2" (15mm)	3/4" (15mm)	3/4" (15mm)	3/4" (15mm)