

# EDI

Electrodeionization Apparatus



**PROEKO JP Spółka z o.o. Spółka Komandytowa**

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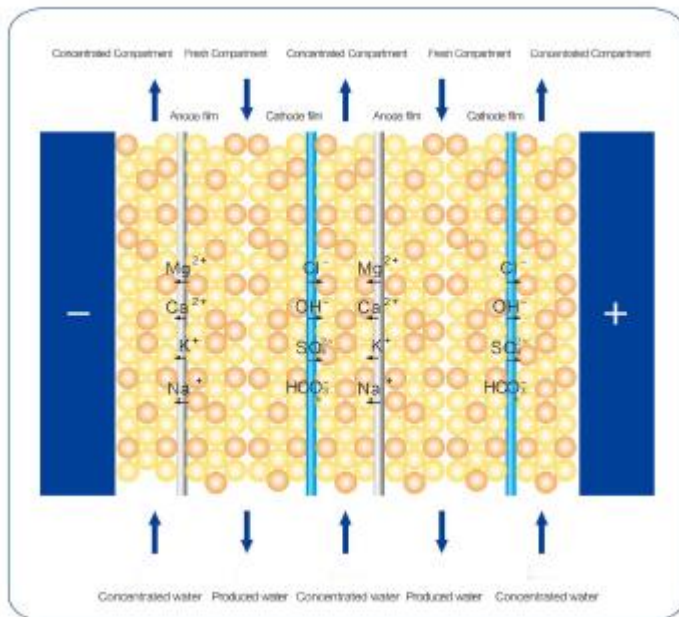
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## » EDI PRINCIPLE

EDI is a kind of pure water manufacturing apparatus that applies to ion exchange technology, ion exchange membrane technology and ion electric migration technology. It is wisely combined electro dialysis with ion exchange technology, by using of high-voltage electrodes at both ends to drive charged ion in the water to move, and with the ion exchange resin and selective resin membrane to accelerate ions moving, so as to achieve the purpose of water purification. EDI has the features of easy operation and excellent environmental protection. It is a green revolution in high pure water producing.



**EDI operational principle**

## » EDI TECHNOLOGY

### EDI MODULE FEATURES

1. Higher and stable quality water product
2. No need for acid-base regeneration
3. Continuous running, simple operation
4. Less requirements and cost in installation
5. Modular system, more flexible, easy to expand
6. No generation chemical waste
7. Reduced facility requirements
8. Low cost in running and maintenance
9. Easy to integrate into existing water systems
10. No recirculation-increased reliability



### Feed water requirement

1. Resource: RO water, conductivity < 20  $\mu$  s/cm, better < 10  $\mu$  s/cm
2. PH:6.5-9.0
3. Water temperature:5-35°C
4. Hardness(as  $\text{CaCO}_3$ ) : < 0.5ppm
5. Organics: < 0.5ppm,TOC recommended to be 0 ppm
6. Oxidizers: < 0.5ppm, $\text{Cl}_2$ :0.05ppm, $\text{O}_3$ :0.02ppm,better both to be 0 ppm
7. Metals: < 0.01ppm
8. Silica: < 0.5ppm
9. Carbon dioxide: < 5ppm
10. Oil: not detectable

## » EDI TECHNOLOGY

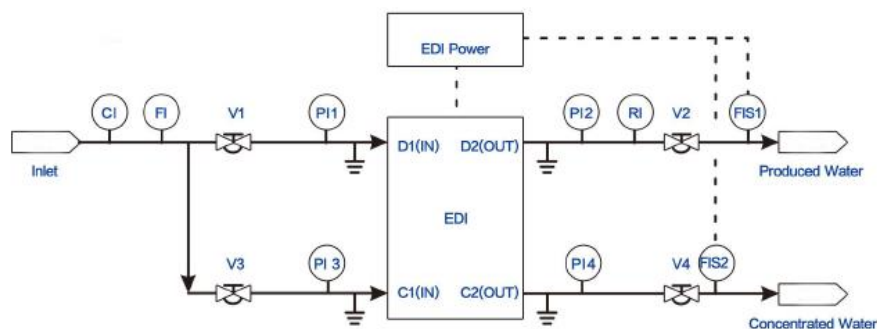
### Application fields

Chemical water treatment from power plants	Electronic , semiconductor, precision machinery industry	Food, beverage, drinking water preparation	Small pure water station	Ultra pure water for fine chemical	High pure water for other industries	High pure water for pharmaceutical industry	Desalination of seawater, brackish water
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### Item



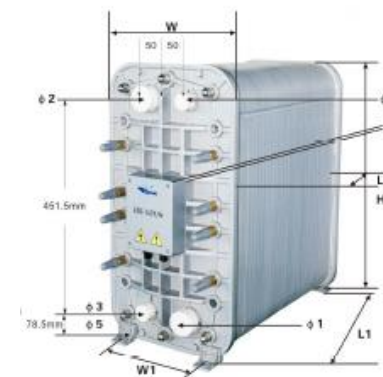
EDI-P&F-0.5-HP   EDI-P&F-1.0-HP   EDI-P&F-2.0-HP   EDI-P&F-3.0-HP   EDI-P&F-4.0-HP   LX-45Z



### Note

D1 -	Fresh water inlet	C2 -	Concentrated water outlet	V -	Valve
D2 -	Produced water outlet	CI -	Conductivity meter	PI -	Pressure gauge
C1 -	Concentrated water inlet	FI -	Flow meter	RI -	Resistivity meter

## » LX SERIES EDI TECHNICAL PARAMETER



	L(mm)	W(mm)	H(mm)	L1(mm)	W1(mm)	a	φ 1	φ 2	φ 3	φ 4	φ 5
LX-04Z	150	320	605	190	218	35	1 1/4 "	1 1/4 "	3/4 "	3/4 "	M8
LX-10Z	210	320	605	255	218						
LX-18Z	330	320	605	370	218						
LX-24Z	420	320	605	460	218						
LX-30Z	510	320	605	550	218						
LX-45Z	715	320	605	765	218						

	LX-04Z	LX-10Z	LX-18Z	LX-24Z	LX-30Z	LX-45Z
Product flow ( T/H )	0.5	1.0	2.0	2.5	3.0	5.0
Min Product flow ( T/H )	0.22	0.55	1.1	1.4	1.7	2.55
Max Product flow ( T/H )	0.67	1.35	2.8	3.5	4.2	6.8
Recovery ( % )	90-95	90-95	90-95	90-95	90-95	90-95
Resistivity ( MΩ.cm )	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15	≥ 15
Voltage ( DCV )	8-20	10-40	25-60	40-80	50-100	60-150
Current ( DCA )	2-5	2-5	2-5	2-5	2-5	2-5
Inlet pressure ( Mpa )	0.10-0.30	0.10-0.30	0.15-0.40	0.15-0.40	0.15-0.40	0.22-0.40
Max pressure ( Mpa )	0.7	0.7	0.7	0.7	0.7	0.7
Size of fresh/produced pipe	DN32	DN32	DN32	DN32	DN32	DN32
Size of Concentrate inie/outlet pipe	DN20	DN20	DN20	DN20	DN20	DN20



## » HP SERIES EDI TECHNICAL PARAMETER

Item	L (mm)	W (mm)	H (mm)	L1 (mm)	W1 (mm)	a	Φ1	Φ2	Φ3	Φ4	Φ5
EDI-P&F-0.5-HP	155	310	680	200	197	35	DN25	DN25	DN15	DN15	M8
EDI-P&F-1.0-HP	218	310	680	258	197						
EDI-P&F-2.0-HP	375	310	680	415	197						
EDI-P&F-3.0-HP	530	310	680	560	197						
EDI-P&F-4.0-HP	675	310	680	715	197						

Item	EDI-P&F-0.5-HP	EDI-P&F-1.0-HP	EDI-P&F-2.0-HP	EDI-P&F-3.0-HP	EDI-P&F-4.0-HP
Product flow (T/H)	0.5	1.0	2.0	3.0	4.0
Min product flow (T/H)	0.3	0.7	1.4	2.4	3.2
Max product flow (T/H)	0.7	1.5	2.5	3.8	4.8
Recovery (%)	90-95	90-95	90-95	90-95	90-95
Resistivity (MΩ.cm)	≥15	≥15	≥15	≥15	≥15
Voltage (DCV)	9-18	15-30	30-60	45-90	60-120
Current (DCA)	2-5	2-5	2-5	2-5	2-5
Inlet pressure (Mpa)	0.10-0.3	0.10-0.3	0.15-0.4	0.15-0.4	0.15-0.4
Max pressure (Mpa)	0.7	0.7	0.7	0.7	0.7
Size of fresh/produced pipe	DN25	DN25	DN25	DN25	DN25
Size of concentrate inlet/outlet pipe	DN15	DN15	DN15	DN15	DN15

## » SMALL EDI TECHNICAL PARAMETER



Item	L (mm)	W (mm)	H (mm)	L1 (mm)	W1 (mm)	Φ1	Φ2	Φ3
EDI-P-50L	120	155	325	130	70	DN6	DN6	DN8
EDI-P-100L	150	155	325	160	70	DN6	DN6	DN8
EDI-P-200L	210	155	325	230	70	DN8	DN8	DN8
EDI-P-250L	270	155	325	290	70	DN8	DN8	DN8

Item	EDI-P-50L	EDI-P-100L	EDI-P-200L	EDI-P-250L
Product flow (L/H)	50	100	200	250
Recovery (%)	70-80	70-80	70-80	70-80
Resistivity (MΩ.cm)	≥15	≥15	≥15	≥15
Voltage (DCV)	24-40	24-40	40-70	40-70
Current (DCA)	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0
Inlet pressure (Mpa)	0.05-0.3	0.08-0.3	0.1-0.4	0.1-0.4
Max pressure (Mpa)	0.4	0.4	0.4	0.4
Size of fresh/Produced pipe	DN6	DN6	DN8	DN8
Size of concentrate Inlet/Outlet pipe	DN6	DN6	DN8	DN8

## » EDI EQUIPMENT

The EDI we have researched and produced is a green revolution in the field of high pure water purification. It is widely used in electricity, electronics, medicine and chemical industry, etc. It can completely replace imported modules. Our company adhering to technological innovation has been ranked first in many sectors in UE. Its technological achievements are equal to the international level compared to similar products.

The company has the first-class staff of R&D, manufacturing and technical services. Through the long-term and in-depth technical cooperation with domestic well-known colleges and universities, we have made a number of national invention patents.



50L/H-200T/H

EDI systems are available

Perfect technical solutions

Stable performance products

Perfect after-sale service

- DDWI EDI Equipment



## » PART OF THE CASE



600m³/H(3x200m³/H) EDI



400m³/H(4x100m³/H) EDI



50m³/H EDI



30m³/H EDI