



EDI

Electrodeionization Apparatus
电去离子装置



浙江东大环境工程有限公司

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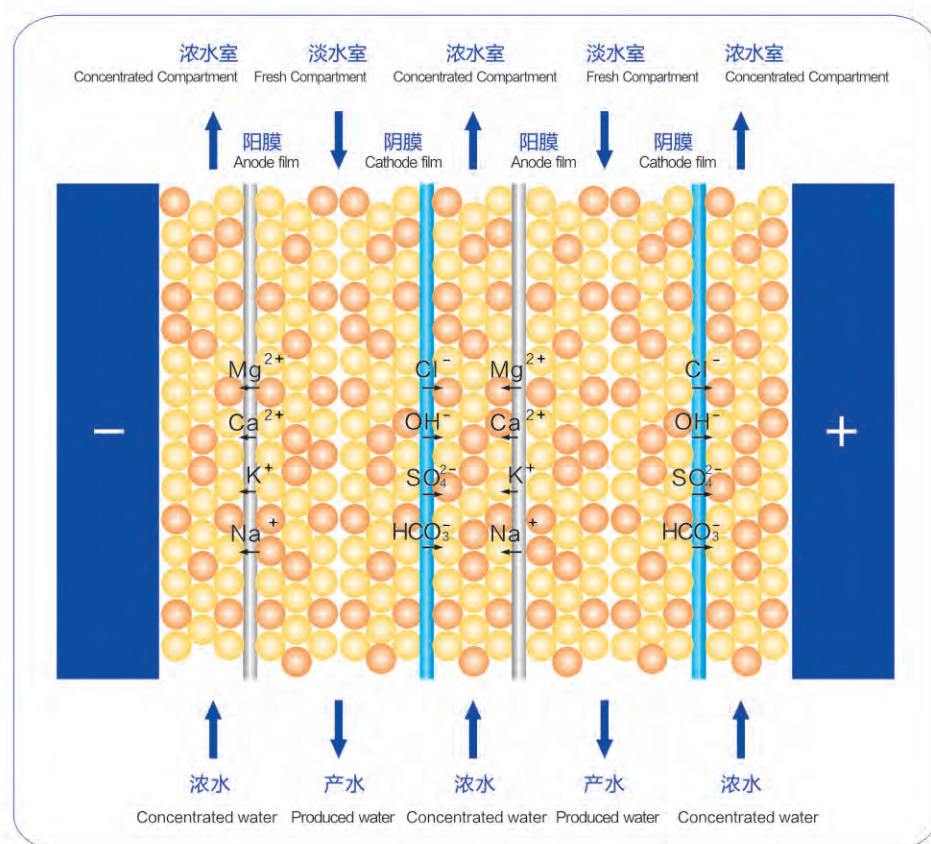
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» EDI原理 | EDI PRINCIPLE

EDI (Electrodeionization) 是一种将离子交换技术、离子交换膜技术和离子电迁移技术相结合的纯水制造技术。它巧妙地将电渗析和离子交换技术相结合，利用两端电极高压使水中带电离子移动，并配合离子交换树脂及选择性树脂膜以加速离子移动去除，从而达到水纯化的目的。它具有技术先进、操作简便和优异的环保特性，是纯水制备技术的绿色革命。



EDI operation principle

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技术 | EDI TECHNOLOGY

膜块优点

1. 产水水质高且稳定;
2. 无需酸碱再生;
3. 持续运行、操作简单;
4. 安装简单费用低;
5. 模块化设计、方便扩容;
6. 无再生污染;
7. 建筑面积要求低;
8. 运行维护成本低;
9. 易与原处理系统集成;
10. 无加盐和浓水循环系统，可靠度高。

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;

EDI进水水质要求

1. 给水: RO产水, 电导率 < 20 $\mu\text{s}/\text{cm}$; 最好 < 10 $\mu\text{s}/\text{cm}$;
2. PH值: 6.5-9.0;
3. 水温度: 5-35 $^{\circ}\text{C}$;
4. 硬度 (以CaCO₃): < 0.5ppm;
5. 有机物: 最大为0.5ppm, TOC建议为零;
6. 氧化剂: 最大为0.05ppm Cl₂: 0.05ppm, O₃: 0.02ppm最好两者为零;
7. 铁、锰: < 0.01ppm;
8. 二氧化硅: < 0.5ppm;
9. 二氧化碳: < 5ppm;
10. 油和油脂: 检不出。

Feed water requirement

1. Resource: RO water, conductivity < 20 $\mu\text{s}/\text{cm}$, better < 10 $\mu\text{s}/\text{cm}$;
2. PH: 6.5-9.0
3. Water temperature: 5-35 $^{\circ}\text{C}$
4. Hardness(as CaCO₃): < 0.5ppm
5. Organics: < 0.5ppm, TOC recommended to be 0 ppm
6. Oxidizers: < 0.05ppm, Cl₂: 0.05ppm, O₃: 0.02ppm, better both to be 0 ppm
7. Metals: < 0.01ppm
8. Silica: < 0.5ppm
9. Carbon dioxide: < 5ppm
10. Oil: not detectable



» 微型系列技术参数

SMALL EDI TECHNICAL PARAMETER



» HP系列技术参数

HP SERIES EDI TECHNICAL PARAMETER

型号Item	L (mm)	W (mm)	H (mm)	L1 (mm)	W1 (mm)	Φ1	Φ2	Φ3
EDI-P-50L	118	155	330	134	70	DN6	DN6	DN8
EDI-P-100L	150	155	330	166	70	DN6	DN6	DN8
EDI-P-200L	210	155	330	246	70	DN8	DN8	DN8
EDI-P-250L	275	155	330	311	70	DN8	DN8	DN8

型号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						

型号Item	EDI-P-50L	EDI-P-100L	EDI-P-200L	EDI-P-250L
产水流量 Product flow (L/H)	50	100	200	250
回收率 Recovery (%)	70-80	70-80	70-80	70-80
产水电阻率 Resistivity (MΩ.cm)	≥15	≥15	≥15	≥15
工作电压 Voltage (DCV)	24-30	32-40	40-50	40-50
工作电流 Current (DCA)	0.5-1.0	0.5-1.0	0.5-1.0	0.5-1.0
最大压力 Max pressure (Mpa)	0.4	0.4	0.4	0.4
淡水/产水接管尺寸 Size of fresh/Produced pipe	DN6	DN6	DN8	DN8
浓水进/出接管尺寸 Size of concentrate Inlet/Outlet pipe	DN6	DN6	DN8	DN8

型号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
产水流量 Product flow (T/H)	0.5	1.0	2.0	3.0	4.0
最低产水流量 Min product flow (T/H)	0.3	0.7	1.4	2.4	3.2
最高产水流量 Max product flow (T/H)	0.7	1.5	2.5	3.8	4.8
回收率 Recovery (%)	80-90	80-90	80-90	80-90	80-90
产水电阻率 Resistivity (MΩ.cm)	≥15	≥15	≥15	≥15	≥15
工作电压 Voltage (DCV)	9-18	15-30	30-60	45-90	60-120
工作电流 Current (DCA)	2-5	2-5	2-5	2-5	2-5
进水压力 Inlet pressure (Mpa)	0.10-0.3	0.10-0.3	0.15-0.4	0.15-0.4	0.15-0.4
最大压力 Max pressure (Mpa)	0.7	0.7	0.7	0.7	0.7
淡水/产水接管尺寸 Size of fresh/produced pipe	DN25	DN25	DN25	DN25	DN25
浓水进/出接管尺寸 Size of concentrate inle/ outlet pipe	DN15	DN15	DN15	DN15	DN15

» EDI设备 | EDI EQUIPMENT

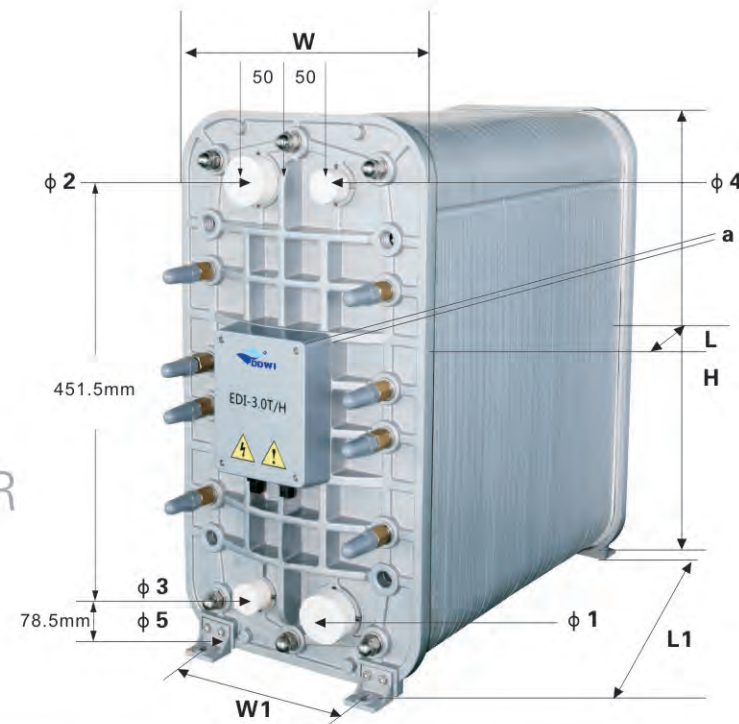
我公司研发生产的连续电去离子装置(EDI)是高纯水制备领域的一次绿色革命,产品广泛应用于电力、电子、医药和化工等领域,可完全替代进口膜块。公司坚持以科技创新,突破了发达国家的技术封锁,创造了多个国内第一,技术成果达到国际同类产品先进水平。

公司现拥有一流的研发、生产和技术服务团队,通过与国内知名高校长期、深入技术合作,取得了多项国家发明专利。

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 China. 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.

» LX系列技术参数 | LX SERIES EDI TECHNICAL PARAMETER



基本外观尺寸»

型号	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						
LX-10Z	210	320	605	255	218						
LX-18Z	327	320	605	370	218						
LX-24Z	417	320	605	460	218	35	1 1/4"	1 1/4"	3/4"	3/4"	M8
LX-30Z	507	320	605	550	218						
LX-45Z	720	320	605	765	218						

基本规格参数»

型号	LX-04Z	LX-10Z	LX-18Z	LX-24Z	LX-30Z	LX-45Z
产水流量 Product flow (T/H)	0.5	1.0	2.0	2.5	3.0	5.0
最低产水流量 Min Product flow (T/H)	0.22	0.55	1.1	1.4	1.7	2.55
最高产水流量 Max Product flow (T/H)	0.67	1.35	2.8	3.5	4.2	6.8
回收率 Recovery (%)	80-90	80-90	80-90	80-90	80-90	80-90
产水电阻率 Resistivity (MΩ.cm)	≥15	≥15	≥15	≥15	≥15	≥15
工作电压 Voltage (DCV)	0-55	0-135	0-240	0-320	0-400	0-500
工作电流 Current (DCA)	0-6	0-6	0-6	0-6	0-6	0-6
进水压力 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
最大压力 Max pressure (Mpa)	0.7	0.7	0.7	0.7	0.7	0.7
淡水/产水接管尺寸 Size of fresh/produced pipe	DN32	DN32	DN32	DN32	DN32	DN32
浓水进/出接管尺寸 Size of Concentrate inle/outlet pipe	DN20	DN20	DN20	DN20	DN20	DN20



完美的技术解决方案

Perfect technical solutions

性能稳定的产品

Stable performance products

完善的售后服务

Perfect after-sale service

——东大EDI设备
DDWI EDI equipment

提供50L/H~200T/H各种规格EDI整机

50L/H~200T/H EDI systems are available

