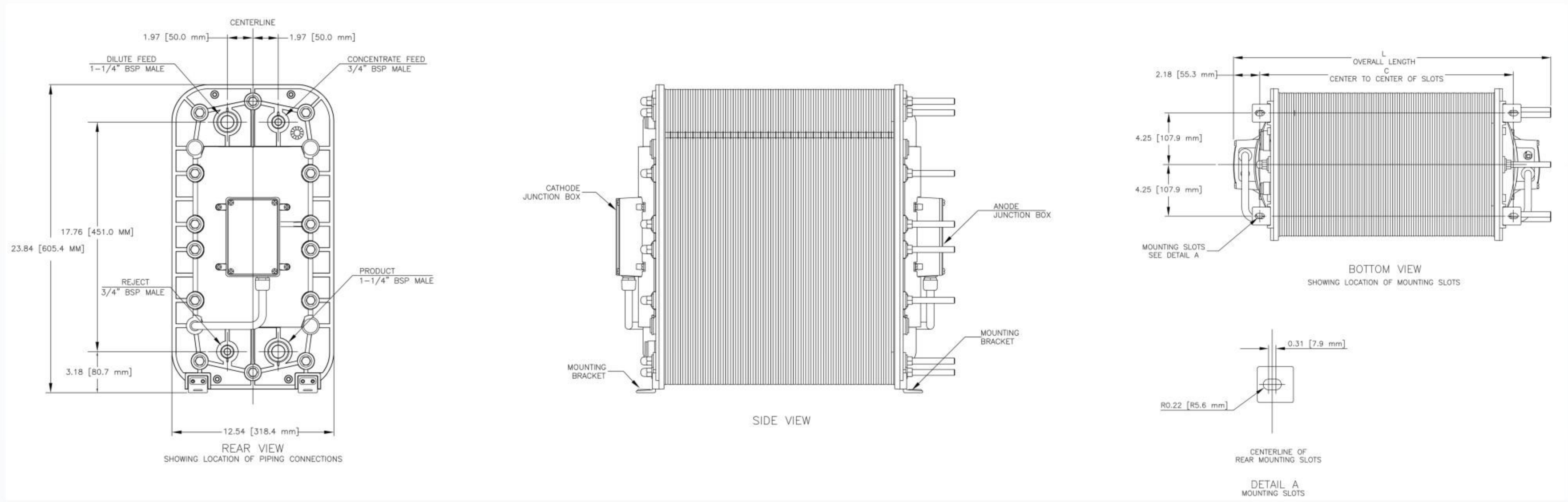
EIMD-DI

The Aquacells EIMD-DI module is specifically designed for applications requiring ultrapure water, finding widespread use in industries such as semiconductor, power, chemical and steel.



Superior Performance

- CPVC material for spacers offers cost effectiveness
- Continuous operation at 7 bar(100 psi)149°F(65°°C)
- Double O-ring seal guarantees leak-free operation
- Product resistivity ≥16MΩ·cm without the use of chemicals
- No need for salt and concentrated water recirculation

Quality Assurance Standards

Factory has passed ISO9001 certification. Modules that are CE certified are factory tested to meet the strict industrial standards as well as Aquacells' standards

Operating Environment

Installation should be indoors away from direct sunlight, and in an environment with a maximum ambient temperature of 113°F (45°C)

Serious Reminder

Please consult Aquacells for the use and system design of EIMD-70DI

Feed Water Specifications

Feed Water Conductivity Equivalent including CO_2 and Silica	<45μS/cm
Feed Water Source	RO Permeate
Temperature	40-113℉ (5-45℃)
Inlet Pressure	1.4-7bar (20-100psi)
Maximum Free Chlorine (as Cl_2)	<0.05 ppm
Iron (Fe)	<0.01 ppm
Manganese (Mn)	<0.01 ppm
Sulfide (S^{2-})	<0.01 ppm
pH	4-11
Total Hardness (as $CaCO_3$)	<1.0 ppm
Dissolved Organics (TOC as C)	<0.5 ppm
Silica (SiO_2)	<1.0 ppm

Typical Module Performance

Typical Recovery	90-95%
Maximum Feed Pressure	7bar (100psi)
Maximum Feed Temperature	113℉ (45℃)
DC Voltage*	0-300 V
DC Amperage	0-6 A
Product Resistivity	>16MΩ·cm
Silica (SiO_2) Removal	90-99% depending on feed water

* Voltage required depends on module size

Physical Specifications

Module Number	Overall Length (L)	Center to Center of Slots (C)
EIMD-05DI	257.0 mm[10.12"]	189 mm[07.44"]
EIMD-10DI	347.7 mm[13.69"]	275 mm[10.82"]
EIMD-20DI	513.0 mm[20.20"]	395 mm[15.55"]
EIMD-30DI	696.5 mm[27.42"]	567 mm[22.32"]
EIMD-50DI	907.3 mm[35.72"]	786 mm[30.94"]
EIMD-70DI	940.0 mm[37.00"]	815 mm[32.08"]

Flow Rate and Weights

Module Number	Nominal Product Flow gpm(m^3/h)	Min Pruduct Flow gpm(m^3/h)	Net Weight kg(lbs)	Operatihg Weight kg(lbs)
EIMD-05DI	2.0-3.0 (0.44-0.67)	1.0 (0.22)	31(69)	36(80)
EIMD-10DI	5.0-7.5 (1.1-1.65)	2.5 (0.55)	47(104)	57(126)
EIMD-20DI	9.0-13.5 (2.0-3.1)	4.5 (1.0)	68(150)	88(195)
EIMD-30DI	15.0-22.5 (3.4-5.1)	7.5 (7.5)	101(223)	131(289)
EIMD-50DI	22.0-34.0 (5.0-7.5)	11 (2.5)	141(311)	191(422)
EIMD-70DI	31.8-37.5 (7.0-8.25)	15.9 (3.5)	153(338)	223(492)

The information provided in this brochure contains general descriptions or performance characteristics that may not always apply as described in actual use cases or may change due to further product development. An obligation to provide the respective characteristics shall only exist if expressly agreed upon in the terms of the contract.

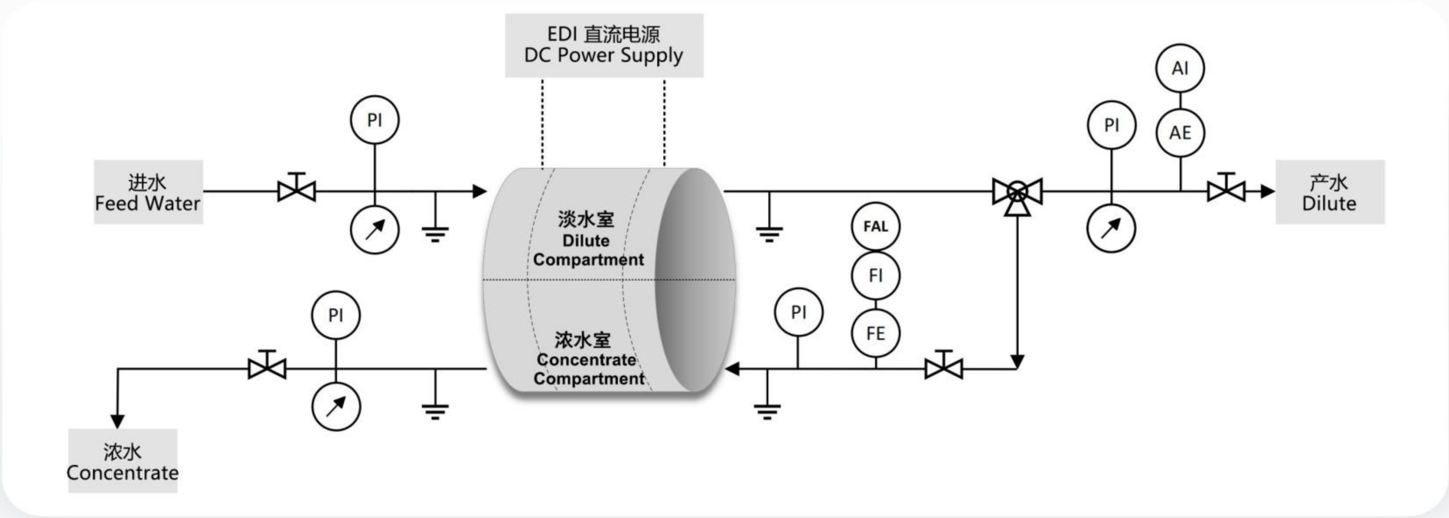
INNOVATION

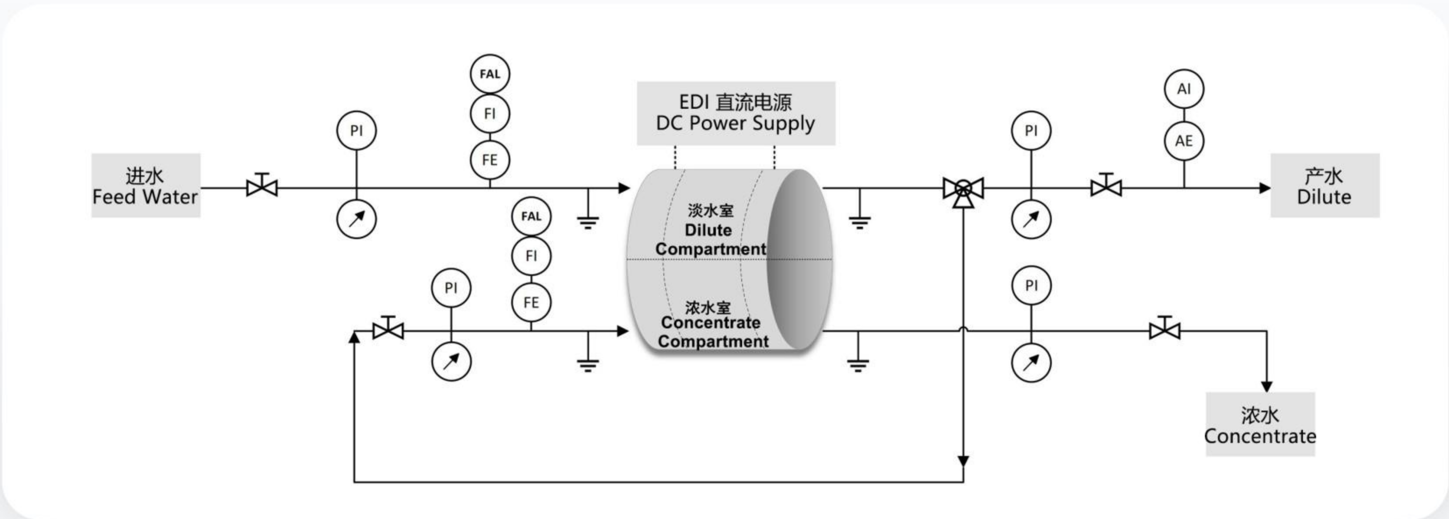
Special filling material

- Anode compartment filled with antioxidant conductive polymer materials to prevent oxidation and burning out

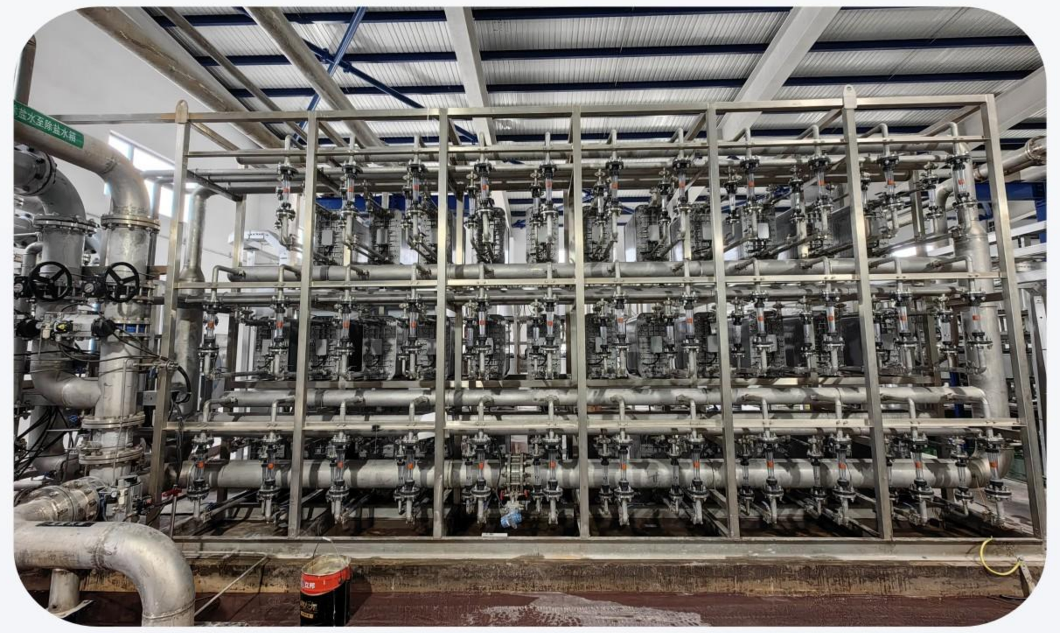
Patented PID process(as shown in the diagram below)

- Reduces LSI index to prevent scaling
- Reduction of chloride ions minimizes the risk of oxidation
- Recovery rate is increased to 98%
- Concentrated water is 100% reusable





CASES



A petrochemical project