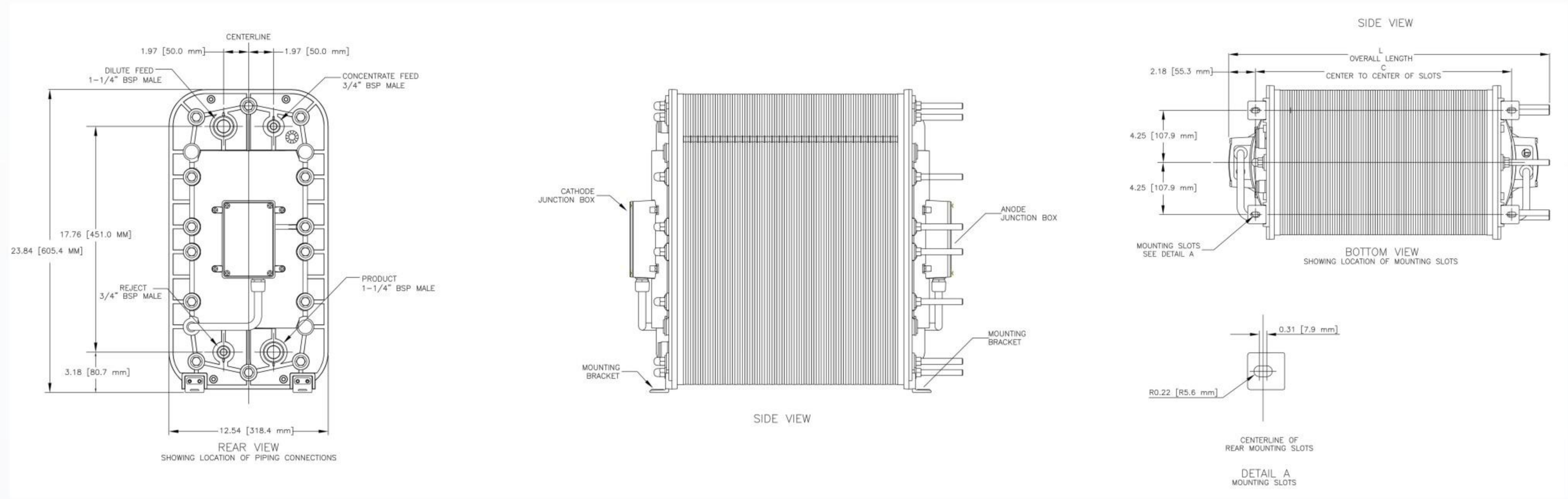
EIMD-CP

The Aquacells EIMD-CP module is developed to replace mixed bed technology for condensate polishing treatment. The module utilizes continuous electrodeionization (EDI) technology to produce water with a resistivity exceeding 16 MΩ·cm without the need for shutdown and regeneration.



Superior Performance

- Better quality product water than mixed bed, no need for chemical
- Significantly lower operating costs than mixed bed technology
- Continuous operation at 7 bar(100 psi)149°F(65°C)
- Double O-ring seal guarantees leak-free operation
- No need for auxiliary facilities of mixed bed
- 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)

Feed Water Specifications	
Feed Water Source	Condensate water
Temperature	140-149℉(60-65℃)
Inlet Pressure	1.4-7bar (20-100psi)
Iron (Fe)	< 0.01ppm
pH	4-11
Oil	< 0.2 ppm

Typical Module Performance	
Typical Recovery	90-95%
Maximum Feed Pressure	7bar (100psi)
Maximum Feed Temperature	65℃ (149℉)
DC Voltage*	0-300 V
DC Amperage	0-6 A
Product Resistivity	> 16MΩ·cm

* Voltage required depends on module size

Physical Specifications

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

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-05CP	2.0-3.0(0.44-0.67)	1.0(0.22)	40(89)	45(100)
EIMD-10CP	5.0-7.5(1.1-1.65)	2.5(0.55)	56(124)	66(146)
EIMD-20CP	9.0-13.5(2.0-3.1)	4.5(1.0)	77(170)	97(214)
EIMD-30CP	15.0-22.5 (3.4-5.1)	7.5(1.7)	110(243)	140(309)
EIMD-50CP	22.0-34.0(5.0-7.5)	11(2.5)	150(331)	200(441)

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.

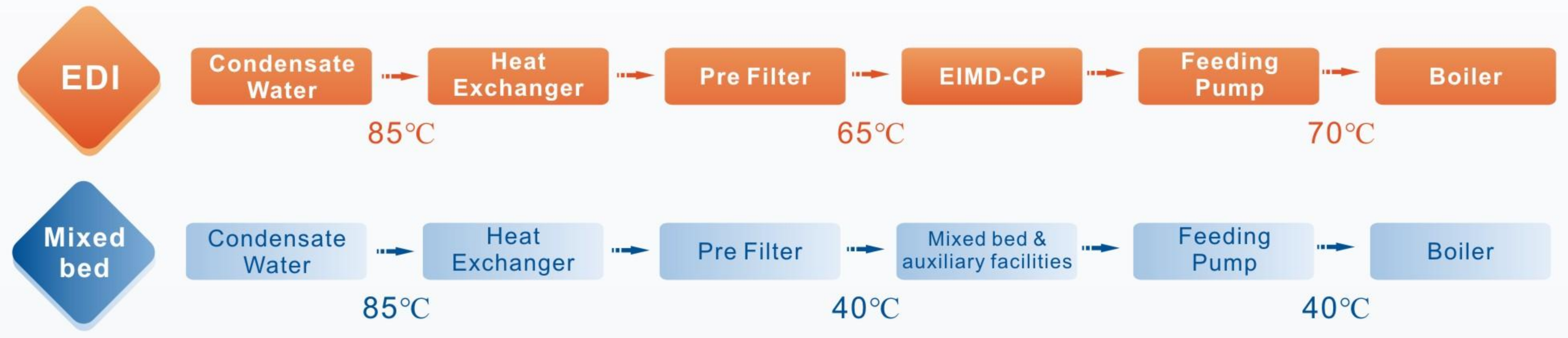
VALUE

Environment Friendly
No need for chemical regeneration, no generation of acidic and alkaline wastewater, reducing pollutant emissions

Reduce Footprint
No need for ancillary facilities to save footprint

Economically Effective
No need to cool down condensate water from 85℃ to 40℃ for heat exchange
Investment reduced by **35%**
Energy consumption reduced by **30%**

Stable Water Quality
Continuous and stable operation for better product water quality than mixed bed



Comparison of condensate water treatment process

CASES

A power project