



HL-EO-CT

The HL-EO is a modularized reactor that has unparalleled efficiency in removing scaling constituents, bio-fouling, and microorganisms in cooling tower and chiller systems.

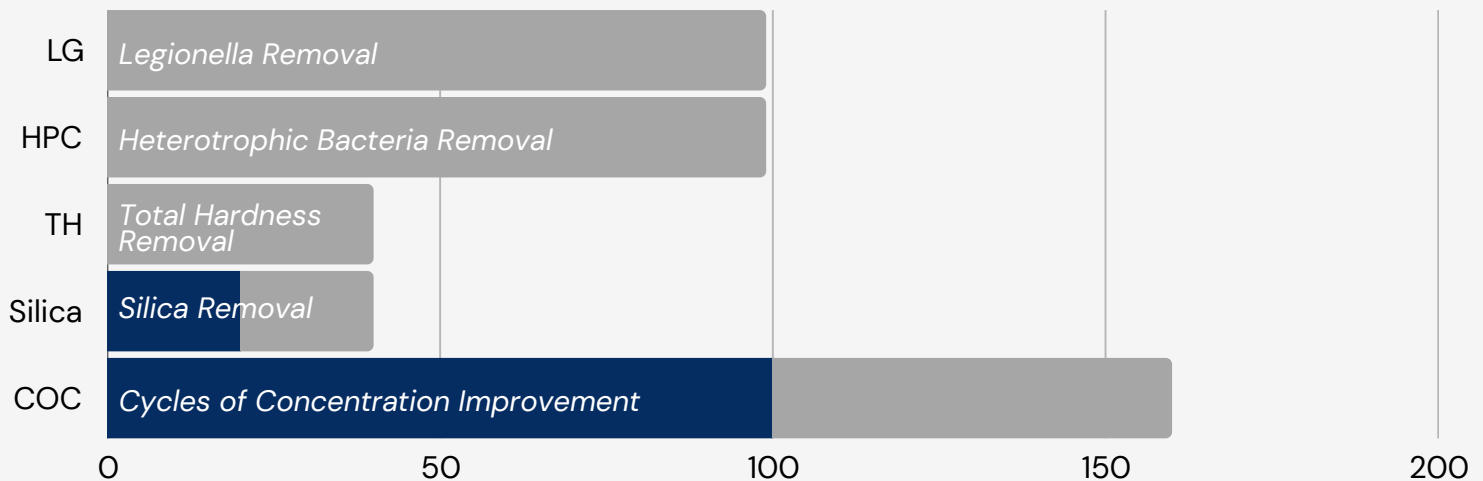
Key Advantages

- Significant scale removal (CaCO_3 , MgCO_3 , SiO_2 , etc.)
- Increasing COC
- Achieving better WUE and PUE
- Effective disinfection of legionella and biofilm

Product Capabilities

Here is a quick overview of the removal efficiencies of the HL-EO-CT system. These percentages are estimates and results may vary depending on the quality of influent.

● Efficiency Min.(%) ● Efficiency Max.(%)



Note that the removal efficiency range up to the specified values.

SCAN ME



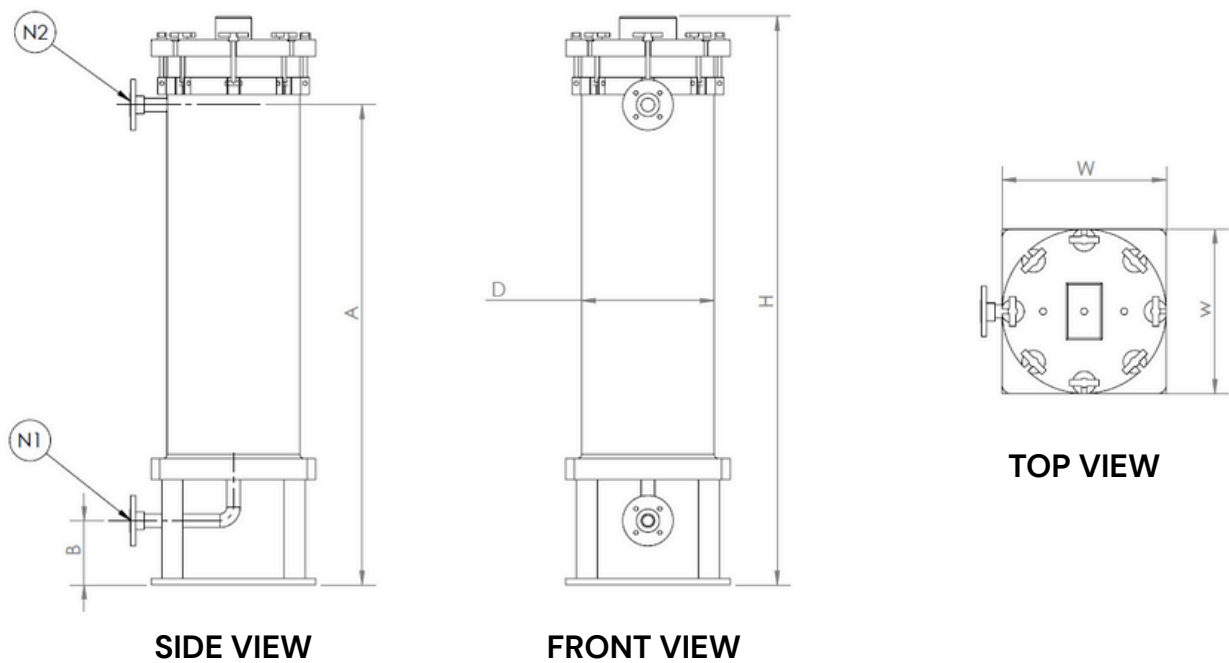
Case Study: Recycling Cooling Tower Water in Blue Chip Company

Company X is a multinational conglomerate that operates as an e-commerce platform, cloud computing service provider, and technology company.

Read to see how Hydroleap achieves descaling and disinfection, on top of establishing up to 80% blowdown water reduction.



Design Schematic



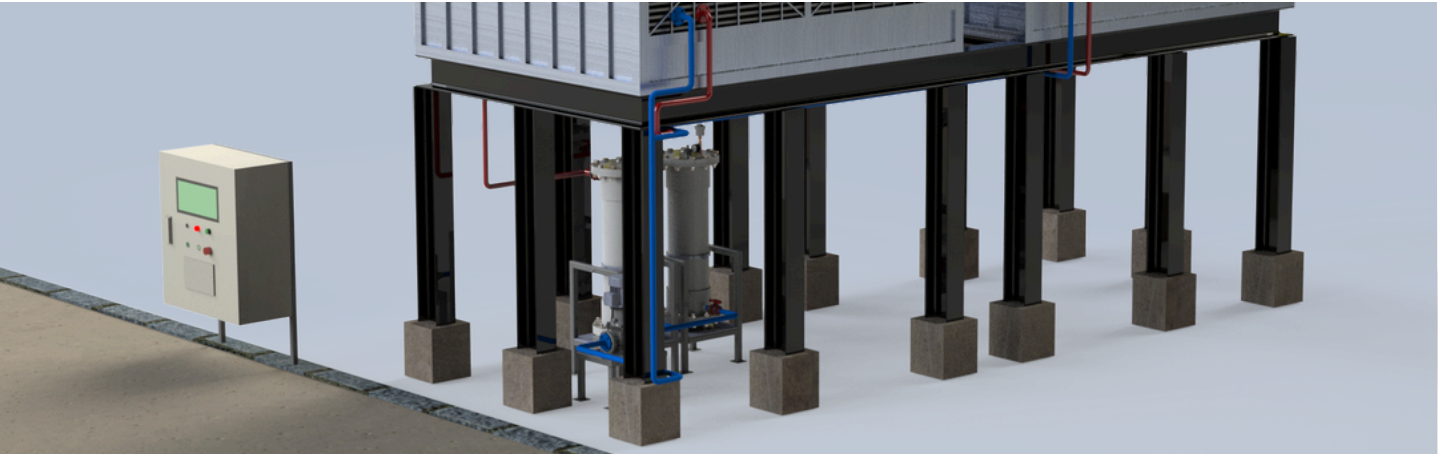
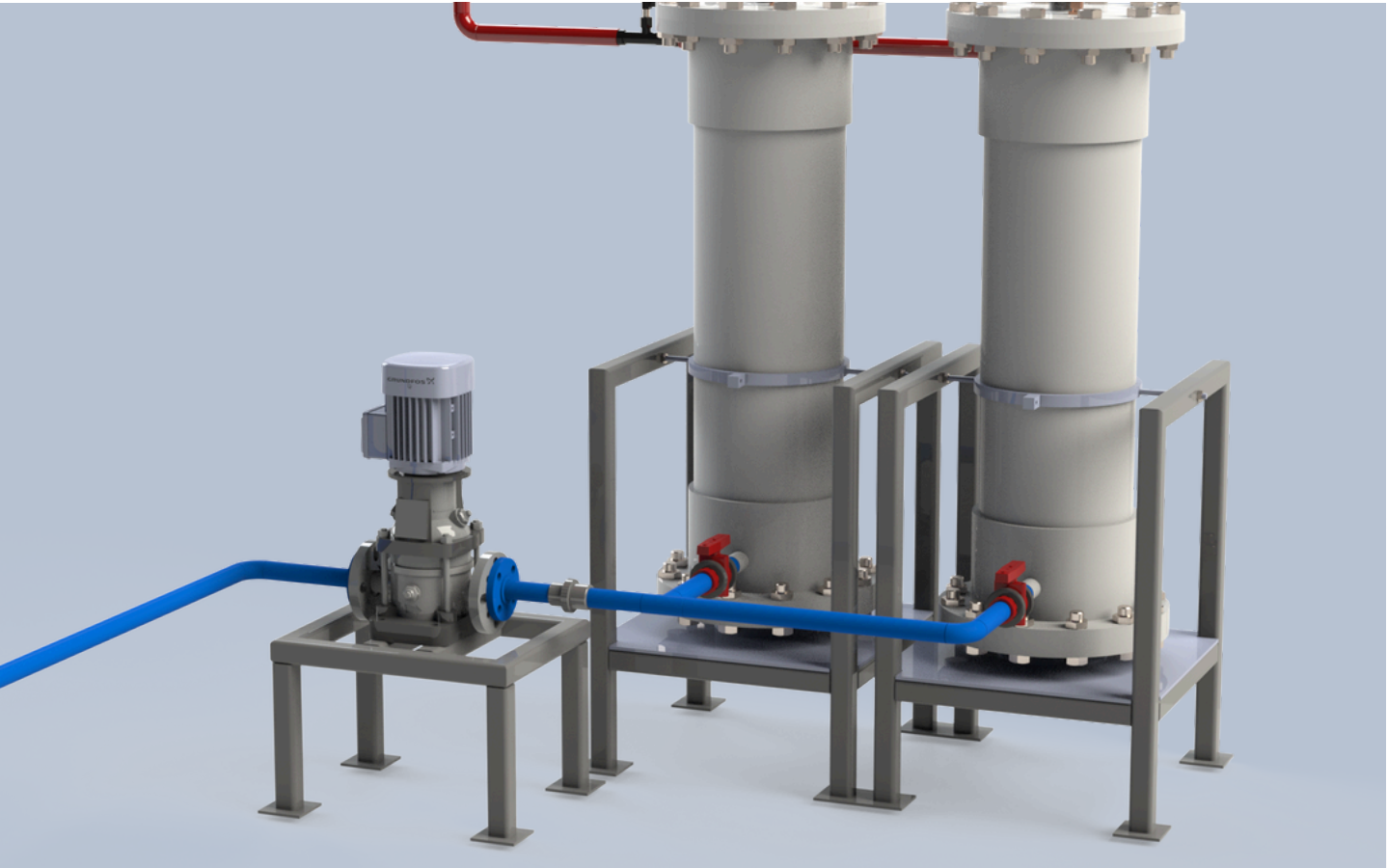
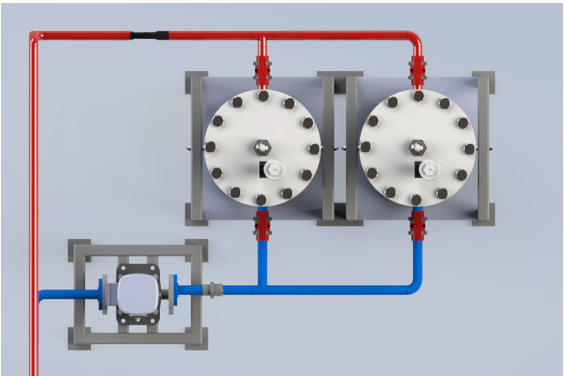
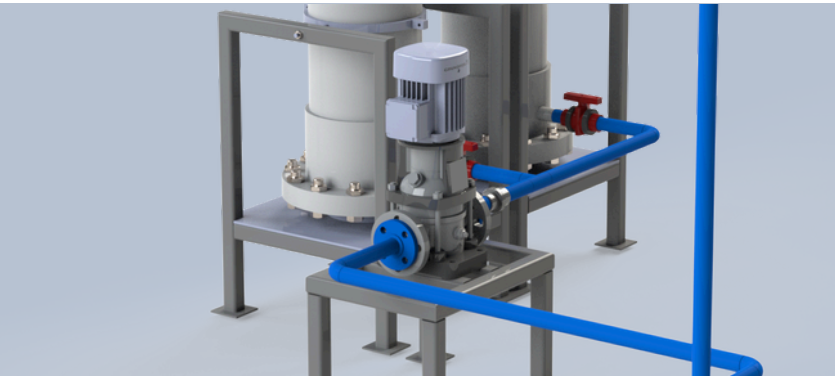
Specifications by Flow Rate

Parameter	Units	Dimension
Outlet Height (A)	mm	1040
Inlet Height (B)	mm	100
Housing Diameter (D)	mm	315
Overall Width (W)	mm	390
Overall Height (H)	mm	1350
Inlet/Drain Diameter (N1)	in	1
Outlet Diameter (N2)	in	1

Note that calculations are based off a specific hydraulic retention time. Hydroleap is always looking to improve, therefore the configurations may change to reflect site / project conditions.

*Customized designs can be discussed to align with your specific requirements.

Product Gallery



Construction Materials

Component	Material
Housing Vessel	PP – Polypropylene
Electrode Material	Proprietary Coated Material

Operating Parameters

*Variable	Units	
Influent Temperature Range	20 – 40 °C	45 – 95 F
Maximum Operating Temperature	45 °C	113F
Internal Pressure Range	0.2 – 1.5 bar	2.9 – 21.8 psi
Maximum Operating Pressure	2 bar	29 psi
Power Rating Range	0.2 – 0.5 kWh/m³	0.0002 – 0.0005 kWh/L
Minimum Power Rating (kWh/m³)	0.1 kWh/m³	0.0001 kWh/L
Flow Rate	0.5 – 1 m³/h	

*Note that the listed operating parameters are subject to the limitations of the materials currently employed. However, we offer the flexibility to enhance these limits and accommodate custom materials through specialized arrangements.

Further Information

The HL-EO-CT employs an array of specialized electrodes and a controlled electrical current to promote the removal of scaling and fouling via AOP. It is also capable of eliminating organics, heavy metals, and other harmful substances, by transforming them into harmless byproducts.

In addition, it can encourage water savings in companies by reducing the amount of blowdown water in cooling towers and henceforth lower overall water consumption.

Contact Us

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