



Product Data Sheet

Technical Brochure

HL-EC

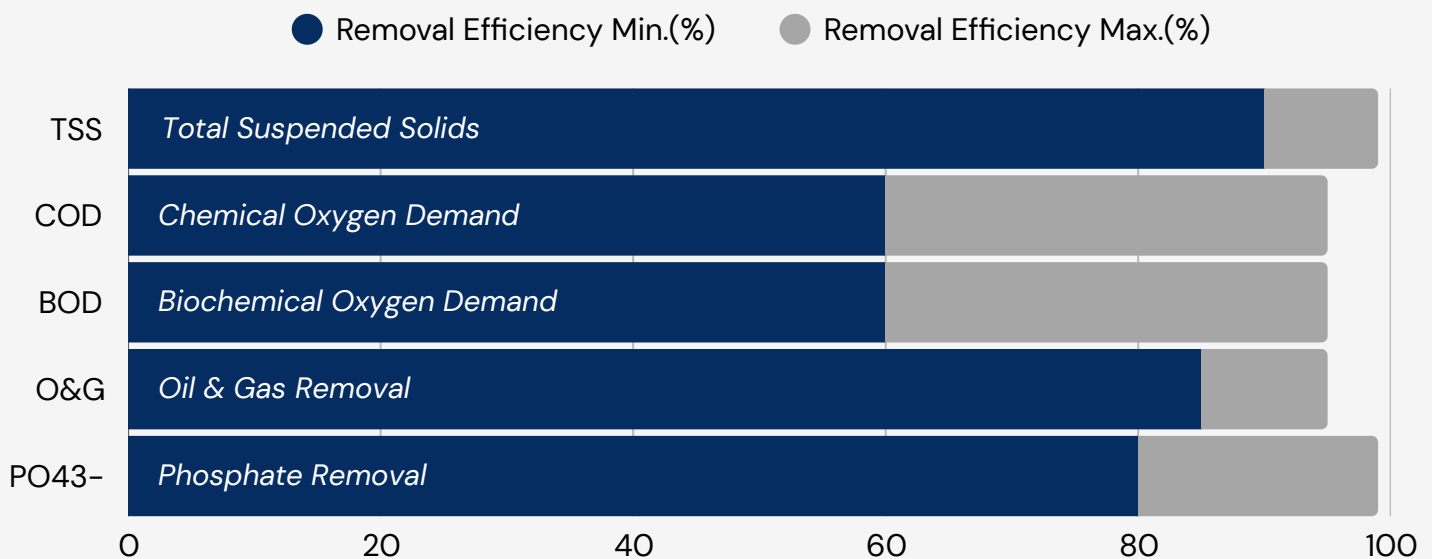
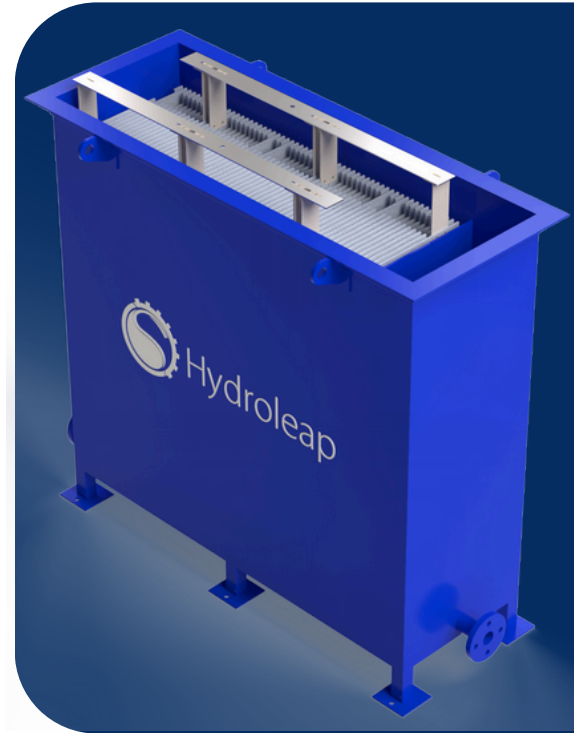
The HL-EC is a proprietary modularised electrocoagulation reactor engineered for industrial wastewater. It has several design features that make it more effective in challenging applications in the Food and beverage, Palm Oil, Pharmaceutical, and Desalination Industries.

Key Advantages:

- Chemical-free
- High treatment performance for TSS, COD, BOD, Oil & Grease, Heavy Metals and Phosphate
- Modularized and Easy to Scale-up

Product Capabilities

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



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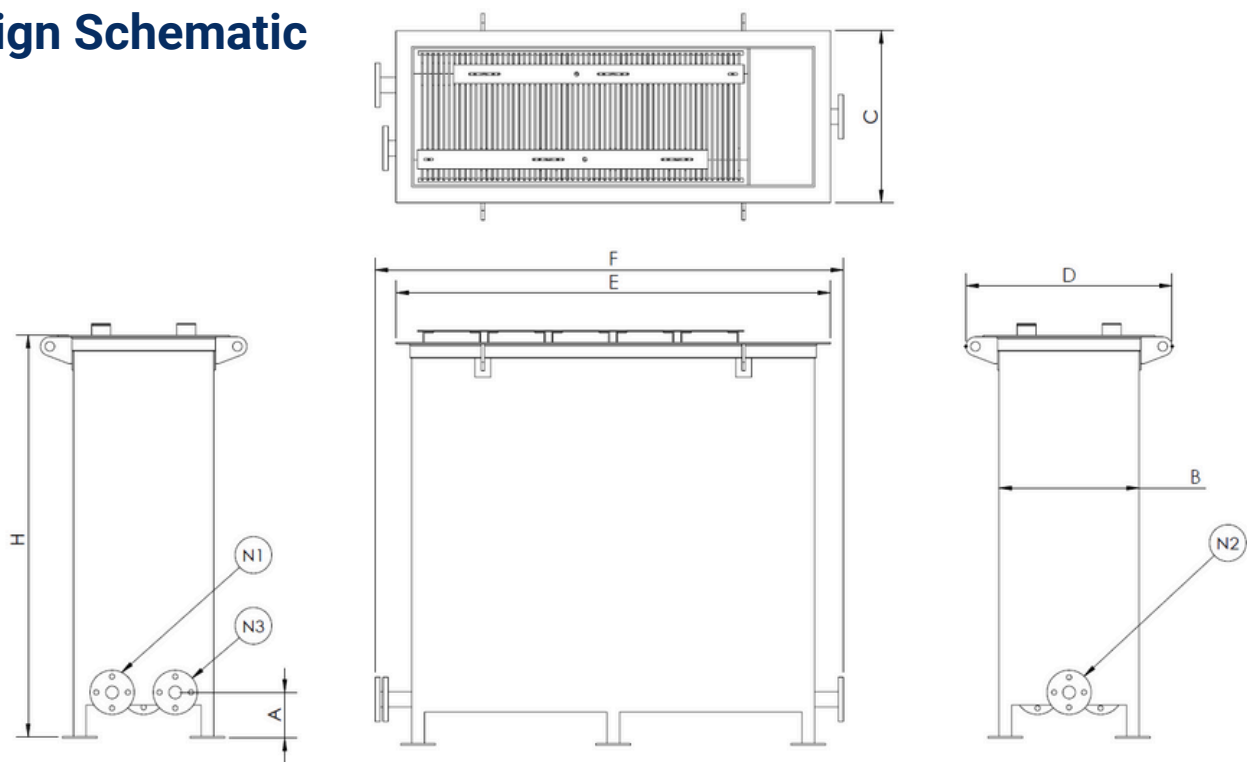


Applicable Industries

The HL-EC is currently being used to treat wastewater in the following industries, and we are exploring its use in others. Please contact us to see if your wastewater can be treated with this technology.

- Manufacturing
- Food and Beverage
- Palm Oil
- Textiles
- Mining

Design Schematic



Specifications by Flow Rate

Dimensions	Units	2.5m³/hr
Inlet/Drain/Outlet Height (A)	mm	145
Reactor Body Width (B)	mm	444
Reactor Width (C)	mm	544
Overall Reactor Width (D)	mm	654
Reactor Length (E)	mm	1,376
Overall Length Width (F)	mm	1483
Reactor Height (H)	mm	1275
Inlet Diameter (N1)	mm	25.4
Drain Diameter (N2)	mm	25.4
Outlet Diameter (N3)	mm	25.4

* Customized designs can be discussed to align with your specific requirements. Hydroleap is always looking to improve, therefore the configurations may change to reflect site / project conditions.

Construction Materials

Component	Material
Housing Vessel	Steel with FRP Lining
Electrode Material	Proprietary Coated Materials

Operating Parameters

*Variable	Units	
Influent Temperature Range	20 – 40 °C	68– 95 F
Maximum Operating Temperature	45 °C	113 F
Power Rating Range	0.3 – 2 kWh/m³	0.0003 – 0.002 kWh/L
Minimum Power Rating (kWh/m³)	0.3 kWh/m³	0.0003 kWh/L

*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

Electrocoagulation is an advanced technology combining conventional coagulation, flotation and electrochemistry. It is a process whereby coagulants are introduced into the wastewater via electrolysis.

The HL-EC reactor offers several key advantages, including easy scalability, allowing it to adapt to varying capacities. Its compact footprint and modular design make it a flexible solution for diverse applications. Additionally, it can be easily retrofitted into existing systems or installed at greenfield sites, ensuring high performance and sustainable treatment for a wide range of processes.



Contact Us

For further enquiries, reach out to us via the following:

84 Toh Guan Rd E,
#03-08/09
Singapore Water
Exchange,
Singapore 608501



Contact.us@hydroleap.com
www.hydroleap.com