

HL-EO

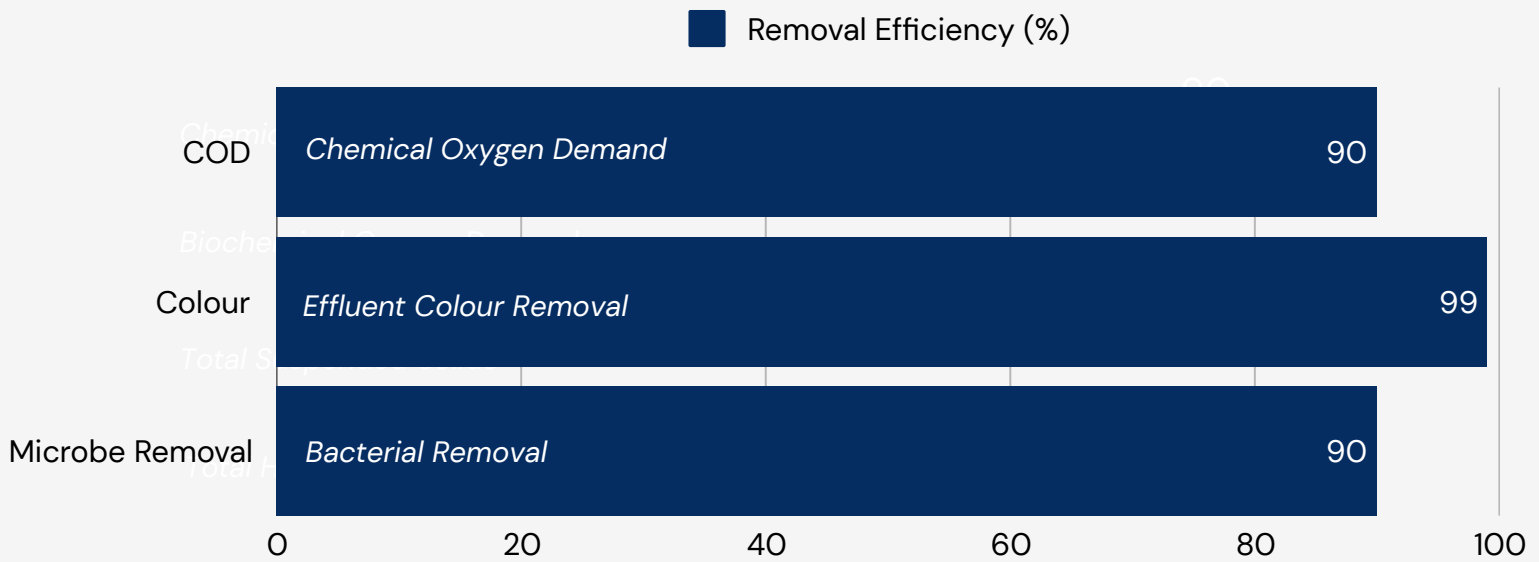
The HL-EO is a proprietary modularised electrooxidation reactor engineered for industrial and tough-to-treat wastewater. It has several design features that make it more effective in treating recalcitrant organics for the Food and beverage, Palm Oil, Semiconductor, Pharmaceutical, and Textile industries.

Key Advantages

- Chemical-free Process
- High Treatment performance for reluctant compounds, COD, Oil & Grease, BOD and Nitrate
- Modularized and Easy to Scale Up

Product Capabilities

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



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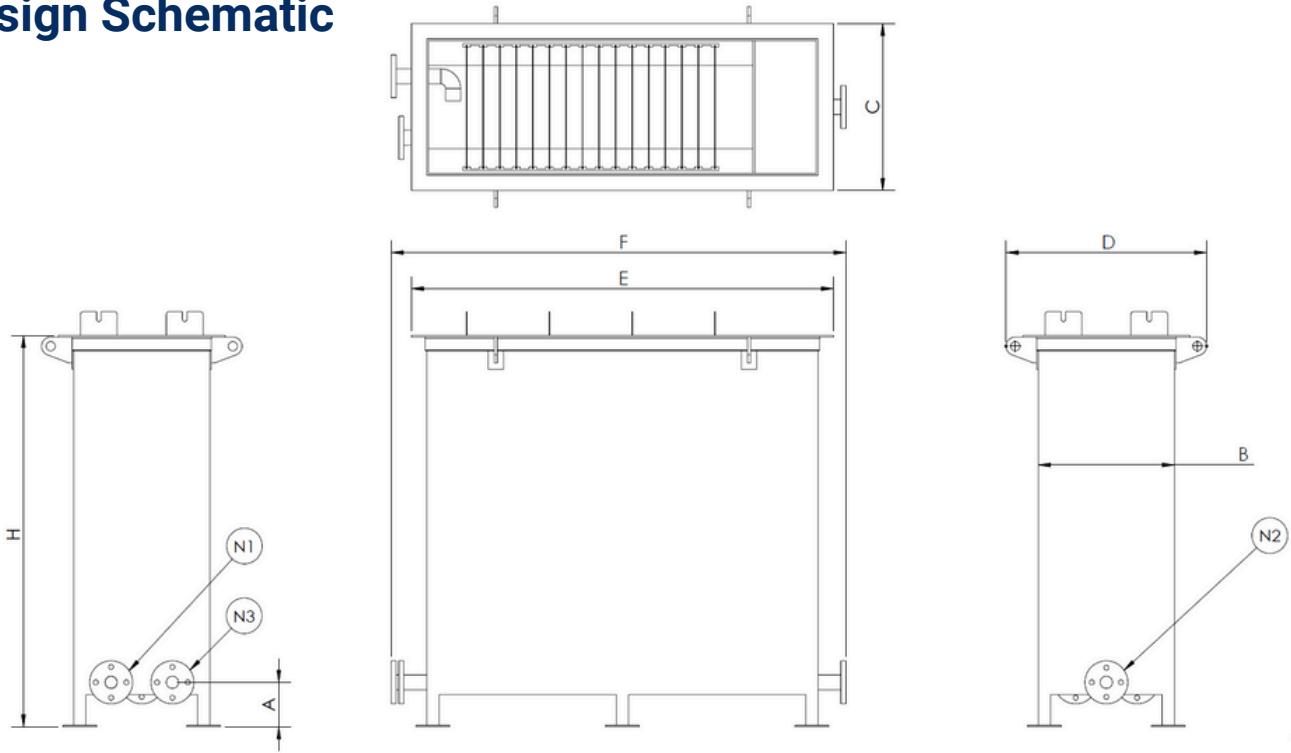


Applicable Industries

The HL-EO 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.

- Cooling Systems
- Palm Oil Mill Effluent
- Semiconductor Wastewater
- Textiles
- Surface Water
- Phenolic Wastewater

Design Schematic



Specifications by Flow Rate

Dimensions	Units	2.5m ³ /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	37,668.2
Reactor Height (H)	mm	32,385
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 – 3 kWh/m ³	0.0003 – 0.003 kWh/L
Minimum Power Rating (kWh/m ³)	0.3 kWh/m ³	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

Electrooxidation is used as a polishing step in the wastewater treatment process. From biowaste to palm oil use cases, it is effective in degrading and removing organic and biological compounds

The HL-EO 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:

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