

Corrosion is costing your oil refinery operations millions of dollars

Corrosion control using caustic & amine is dependent on accurate pH monitoring equipment, which can easily foul due to hydrocarbons. Current filters are unreliable in preventing oil breakthrough into the analyser system. This leads to poor process control resulting in costly corrosion damage to equipment and piping downstream.



Corroded heat exchanger from condenser

Simple solution for a complex issue

pH Analyser Pain Points



Unreliable pH measurement leads to imprecise chemical dosing and corrosion issues

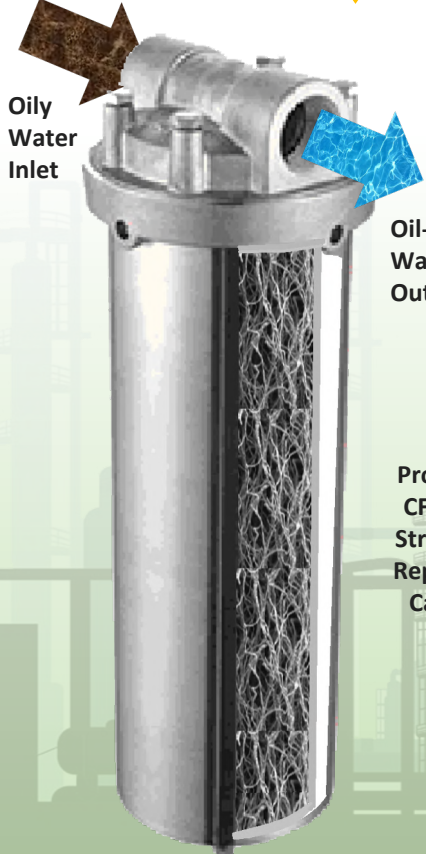


Unpredictable fluctuations of oil content make preventive maintenance difficult to plan



Self cleaning pH sensors are very costly and are only a re-active solution

SUPEROF - CFA Integrated Filter Solution



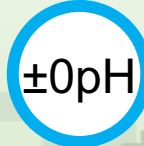
2x Reduced Maintenance

Due to high performance of CFA filter



Up to 40x in savings

Due to more precise chemical dosing and highly efficient filter solution



Zero pH Change

Maintains the pH of sour water for precise sensor measurements



User-friendly

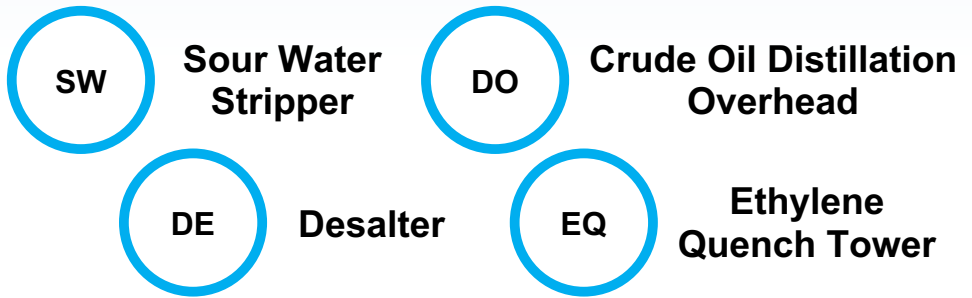
Easy to install and maintain; small footprint and modular design

Proven filter solution containing proprietary Carbon Fibre Aerogel (CFA)

CFA is a novel super-absorbent sponge technology that is capable of efficiently removing insoluble organic contaminants from aqueous environments through absorption. Derived from natural waste biomass and having very high absorption efficiency and selective removal of hydrocarbons, CFA is a superior and sustainable alternative to existing filtration media. The CFA filter is able to reliably prevent oil penetration into the analyser system maintaining pH sensor reading over an extended period of time even under process upsets.



Four Application Areas



Delivering real financial savings

Initial implementation	10,000 \$
CFA cartridges	3,000 \$/yr
Savings filter material	-5,000 \$/yr
Savings chemical dosing	-32,000 \$/yr



Other features



Contributes to ESG goals
Environmentally-friendly



Waste-to-Worth
Waste biomass utilization & upcycling opportunities



Modular & small footprint
Easy integration



ENGAGE US AT SALES@ECOWORTH-TECH.COM

TO KNOW WHAT WE CAN DO FOR YOU!