



**ELGRESSY**  
ENGINEERING SERVICES LTD.



# EEC SYSTEM

Electro Coagulation for heavy metal removal  
and waste water treatment

## Description of the EEC Technology

In its simplest form, an electro coagulation reactor is made up of an electrolytic cell with anodes and cathodes. During electrolysis, the positive side undergoes anodic reactions and on the negative side, cathodic reactions are encountered. Consumable metal plates, such as iron or aluminum, are used as sacrificial electrodes to continuously produce ions in the water. The released ions neutralize the charges of the particles and thereby initiate coagulation. The released ions remove undesirable contaminants, which can then be removed by flotation.

## Uses and Users

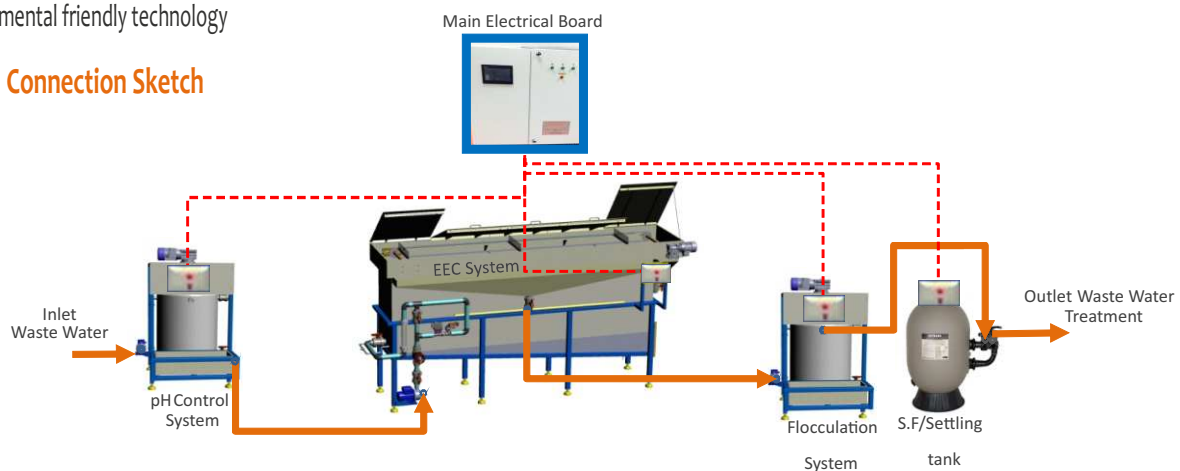
Elgressy EEC Systems are used for the removal or reduction of the following: COD, BOD, TOC, TSS, TDS, FOG, MTBEX, heavy metals, organic & inorganic colloids, inks & dyes, chlorinated PCB's, cyanides, suspended particles, chemical and mechanical polishing waste, synthetic detergent effluents, and more.

Elgressy EEC Systems can be used in the following facilities: photo & film, paper & pulp, plastics, pharmaceuticals, chemicals, soaps & detergents, snack foods, breweries, dairies, bakeries, poultry, slaughter houses, meat processing, fish processing, canneries, fruits, potatoes & vegetables processing, vegetable & olive oil processing, rendering plants, mining, washing streets (cars, trucks, buses, trams, trains, airplanes), construction sites, agriculture, horticulture, aquaculture, animal breeding, water recycling (industrial reuse, irrigation, washing & cleaning) and many more.

## EEC - One System for Numerous Benefits

- Cost Saving
- Small Footprint
- Fully automated, thus easy to operate and maintain
- Enable clear, colorless and odorless waste water
- Enable water recovery
- Green environmental friendly technology

## EEC System Connection Sketch



## About Elgressy

Elgressy Engineering Services Ltd has been active in the field of water treatment for over 40 years and has a reputation for innovation, quality and service second to none.

Elgressy sold and has thousand of working reference projects and systems in the US, Asia, Middle East, China, Thailand and Europe. Elgressy Company develops and market comprehensive solutions and systems for the treatment and prevention of common water related problems including: scale, bacteria, corrosion, heavy metal, ammonia, organic substances, waste water and etc.

Elgressy Engineering Services Ltd.

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\* The EEC movie is available in the following YouTube link: <https://www.youtube.com/watch?v=GyC8QcyYuq>



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