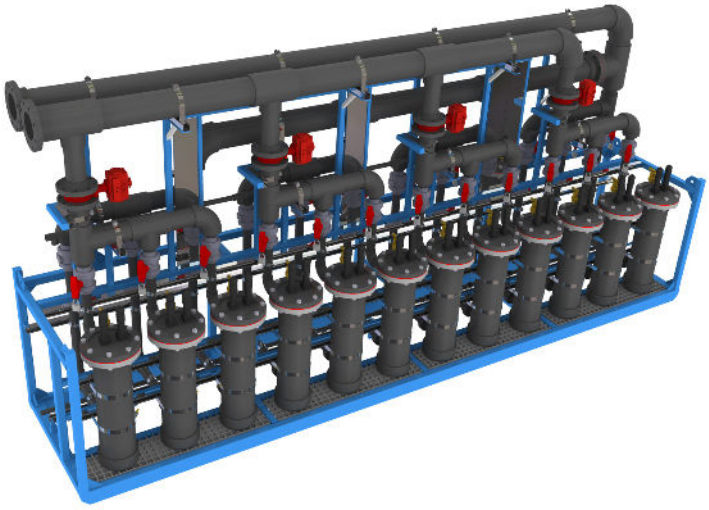
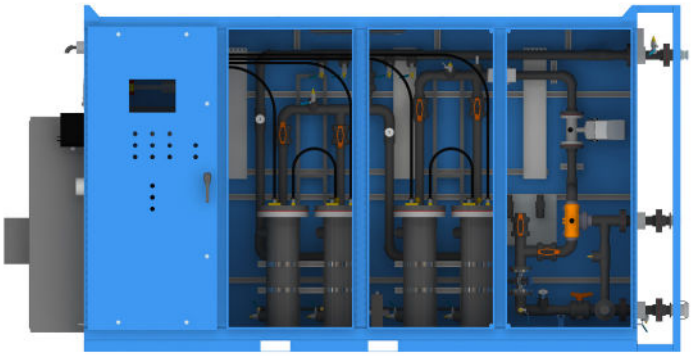
Electrocoagulation Technology
Fact Sheet



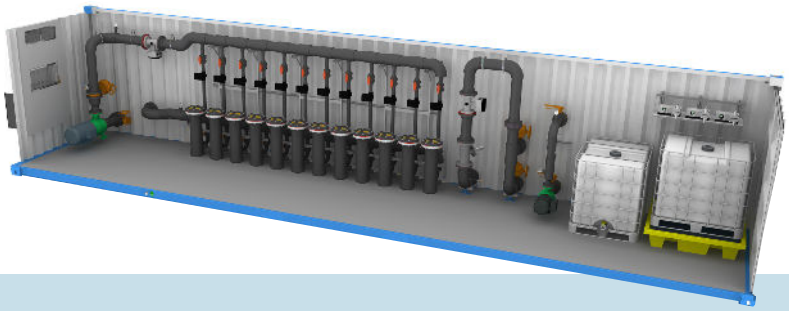


Specific Features

- Industry-leading electrocoagulation technology with WaveIonics™ cell design
- Single-pass, flow-through system
- Scalable electrochemical dosing
- Voltage current monitoring with automated dose adjustment
- Software management to monitor consumable life and control anti-scaling & anti-fouling performance
- Multiple electrode configurations available
- Programmable Logic Controller (PLC) with 12" touch panel display

Additional Available Features

- Real-time water quality monitoring and reporting
- System status data logging & alerts via email notification
- EagleEye™ web portal for remote status and site management
- Integrated pH management
- Solids separation and filtration incorporated into PLC



MANUFACTURING STANDARDS

UL508 Electrical Standards

Class 1 Div, Class 2 Div Available

CSA/CE Available

International Voltage Options

CONFIGURATION OPTIONS

Containerized: 50 to 1000gpm

Skidded: 50 to 1000gpm

Cabinetized: 50 to 200gpm

OPERATING RANGES

Temperate: 32 to 140°F

Conductivity: Up to 100,000+ µs/cm

pH: 2 to 12 s.u.

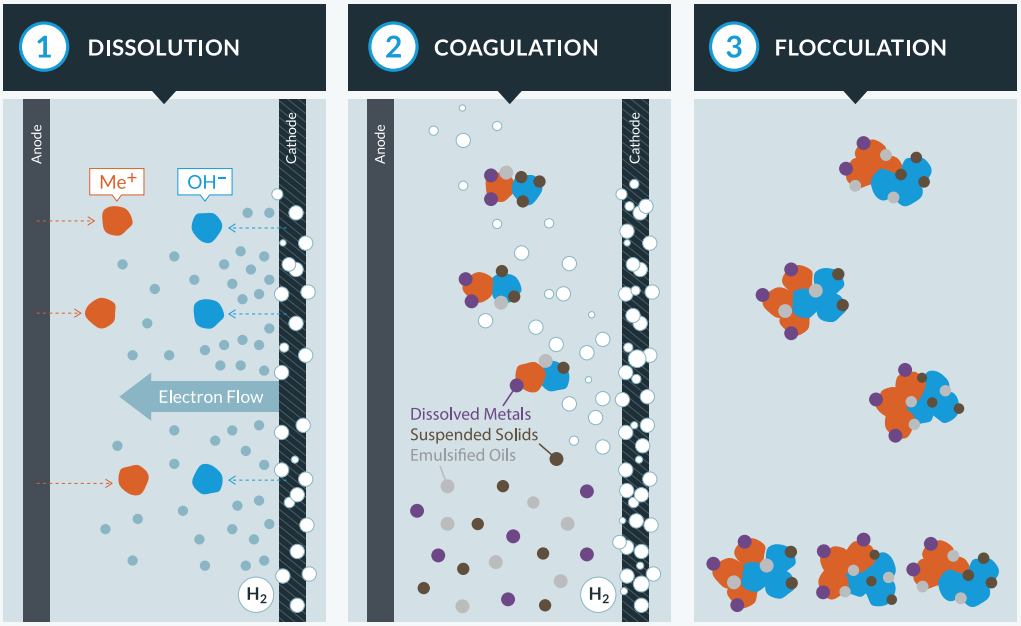
Target Contaminants: Total Suspended Solids, Heavy Metals, Emulsified Oils, Bacteria, and Sulfides. Please inquire for additional contaminants.

What is Electrocoagulation?

Electrocoagulation (EC) is a **broad-spectrum treatment technology** that removes total suspended solids, heavy metals, emulsified oils, bacteria, and other contaminants from water.

HOW IT WORKS

As water passes through the electrocoagulation cell, multiple reactions take place simultaneously. First, a metal ion is driven into the water. On the surface of the cathode, water is hydrolyzed into hydrogen gas and hydroxyl groups. Meanwhile, electrons flow freely to destabilize surface charges on suspended solids and emulsified oils. As the reaction continues, large flocs form that entrain suspended solids, heavy metals, emulsified oils, and other contaminants. Finally, the flocs are removed from the water in downstream solids separation and filtration process steps.



TREATMENT STEPS FOR ULTIMATE EFFECT

Electrocoagulation can be integrated into new or existing treatment processes. Depending on the application, the final solids separation steps can be accomplished using settling tanks, dissolved air flotation, media filtration, ultrafiltration and other technologies to achieve water quality goals.