

Handles flow rates of 50 GPM and more

Operates for as little as 1/4-cent per gallon

Fully automated; can recycle or discharge

Treats emulsified oils and heavy metals

Economically Treats Complex Waste Streams

Water Maze's EC (ElectroClear) system represents a major advancement in wastewater treatment using electrocoagulation, a revolutionary electrical-based technology for effectively treating complex waste streams economically and on-site.

The EC system removes a broad range of contaminants—including emulsified oils, TPH, suspended solids and heavy metals—where filtration or chemical treatment systems are either ineffective or expensive to operate and maintain.

EC-treated wastewater is of quality that it can be recycled or discharged to the sanitary sewer.

Packaged with on-board automation, the EC is fully automated reducing maintenance by up to 95% and creating significant labor savings.

Along with the many advantages of electricity-based water treatment, the EC offers these benefits:

- Water quality that will meet most, if not all, local regulations;
- No filters to be cleaned or purchased over and over;
- Minimal sludge to be disposed of;
- Minimal operating costs resulting in a quick return on investment;
- Low maintenance because the unit is self-cleaning;
- No hazardous chemicals needed to be brought in, stored or handled;
- Totally automated for ease in operation and maintenance;
- Treats most complex waste streams, including emulsified oils, TPH, suspended solids and heavy metals.



■ **Electro-Pulse Treatment:** Wastewater is exposed to electro-pulse treatment in cells, which are modular to accommodate varying flow rates.

■ **Water-Tight Control Center:** Industrial-grade enclosure houses operational switches as well as automation equipment and indicator lights; cover is clear for easy troubleshooting and monitoring without removing the cover panel.

■ **Cell Back-Flush System:** Automated back flush system ensures the electrical plates are regularly cleaned for optimum electro-coagulation effectiveness and long life of the plate assembly.

■ **Separation Tanks:** Charged wastewater flows through a series of tanks, each removing sludge and floating contaminants thus polishing the water.

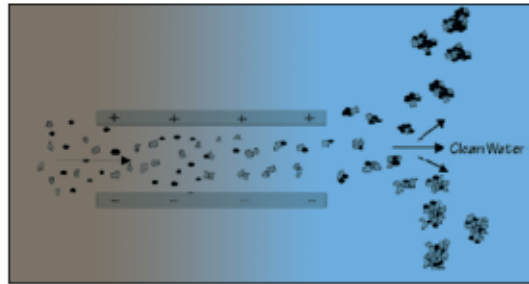
EC

Economical Wastewater Treatment of Complex Waste Streams Using Electrocoagulation Technology

Flow Rates of 50 GPM or More | Fully Automated to Recycle or Discharge | Treats Emulsified Oils and Heavy Metals

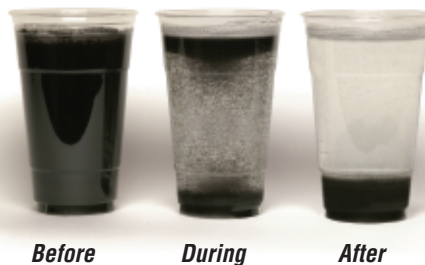
How EC Technology Works

As wastewater contaminants (i.e. heavy metals, suspended solids and emulsified oils) pass by the electro-pulse plates energized by DC voltage, they accept a positive and negative charge causing the tiny particles to bond together like miniature magnets. The clumps of particles either sink or float, depending on the characteristics of the waste stream.



The Water Maze EC Secret

In addition to the electro-pulse process generated by the carefully configured cells and plates, the EC system is unique in the way the cells are arranged in relation to a series of tanks and pumps thus creating highly polished water for discharge to sanitary sewer or for recycling. Furthermore, the EC features a proprietary computer program technology that ensures a highly effective and virtually maintenance-free operation.



The Cost of Operation

The cost of wastewater treatment, including electricity and consumables, typically is only \$2.50 per 1,000 gallons of treated water, or about 1/4-cent per gallon! Also, there are significant savings in labor costs because the EC is fully automated. Moreover, it is extremely effective in treating complex industrial waste streams at flow rates of up to 50 GPM and higher, if needed. There are no filters to clean and no hassles or liability in disposing of filters or filtering media.



FREE
Waste Stream
Feasibility
Test

ice, we offer a FREE Waste Stream Feasibility Test, using a wastewater sample from your facility. This FREE lab test (a \$50 value) will identify contaminants in your waste stream and help us determine how to meet your needs most effectively and economically.

EC Support

All Water Maze systems are backed by a team of application experts seasoned in solving customers' complex wastewater challenges.

As an additional service, we offer a FREE Waste Stream Feasibility Test, using a wastewater sample from your facility. This FREE lab test (a \$50 value) will identify contaminants in your waste stream and help us determine how to meet your needs most effectively and economically.

PROVEN APPLICATIONS

Here are just a few of the cleaning applications in which the EC has proven to be successful:

- Heavy equipment washing
- Car and truck washing detail
- Boat and ship washing
- Aircraft and military
- Forest products
- Groundwater remediation
- Citrus packing
- Shipyards and marinas
- Golf courses
- Surface finishing and polishing
- Manufacturing processes

EFFECTIVE IN REMOVING

The EC has proven to remove:

- Solids, including red clay and heavy soils
- Emulsified oils and greases; suspended and dissolved solids
- Marine debris, light oils, metals-based paint
- Heavy metals (chromium, copper and zinc), TPH, oil, grease
- Tannin, copper, chrome, arsenic
- Citrus wash water, hydrocarbons, organics

Distributed by:

OPTIONS INCLUDE: Customized, metal cargo containers for portability and pre-wired housing, communications kit that allows operational monitoring of the system at the factory, heater kit and air conditioning kit.

See your Water Maze Dealer for part numbers and pricing.

waterMaze
WATER TREATMENT SYSTEMS

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