

Introducing the latest innovation in Water Treatment Solutions

The Innovator series is the next generation of Industrial Waste Water Treatment equipment that uses electro-coagulation and chemical treatment to remove emulsified oils, heavy solids and metals from a broad range of waste streams.



The Innovator Series consists of:

- *EC2 - Electro-coagulation System*
- *CoAg - Chemical Coagulation System*
- *Indexing Polishing Filter*
- *Clean Water Recycling Module*



PATENT PENDING

Since 1989 Water Maze has been manufacturing water treatment systems principally for industrial applications where waste water is generated in manufacturing or by a cleaning method, such as a pressure washer.

Water Maze is pleased to introduce the next generation in industrial wastewater treatment equipment - the Innovator Series. This new line-up consists of modular components, which can be used individually or together, offering an advancement in technology that will revolutionize the way wastewater is treated.

EC2-20A - ADVANCED ELECTRO-COAGULATION TECHNOLOGY

New technology treats many waste streams

This is an advanced Electro-coagulation (EC) system for treating wash water and other industrial waste water that contains suspended solids, emulsified oils, and heavy metals. This system combines both EC water treatment technology and chemical flocculation to enhance and speed up the process of removing constituents from the waste water.



The patent pending design of the Water Maze EC-20A system allows an extremely efficient rate of removal of oils, solids and metals from the waste stream. After the electro-coagulation reaction has occurred in the electrolytic cell, a small amount of EC+ polymer is injected to quickly clump the coagulated oils, solids & metals together for removal. Treated water can be purged to the Water Maze Indexing Polishing filter for further treatment, recycled, or discharged to sanitary sewer.

Features & Benefits:

- No standing water in the tanks after processing
- No need to process dirty water; water is quickly processed and discharged to sewer or held for recycle
- Modular, compact design with a small foot print
- Highly efficient, continual flow batch feed processing system
- Processing flow rates up to 20 GPM (gallons per minute)
- Variable amp flow / voltage maximizes cell life and water quality
- Patent pending design

EC2-20A - Advanced Electro-coagulation Technology | FEATURES

■ The EC2-20A uses a highly effective mixing of the **Electrically Coagulated and Chemically Flocculated** waste stream to assure adequate mixing and dwell time in order for constituents to clump together, making them easier to purge from the system.

■ The EC2-20A uses a unique **Electrolytic cell (EC)** design featuring a stationary cartridge housing, which automatically coagulates the waste water so that solids and oils adhere to each other. The EC cell plates use a variable amp flow, providing longer cell life.

■ The Electrolytic cell cartridge is easy to remove and clean; you can also easily replace only the cell cartridge as well.

■ Two 150 gallon **Processing Tanks** located on board, which stand empty except for when processing water. Without standing water, the need for odor control is eliminated.

■ The onboard **PLC Control System** automatically monitors and controls the filling and purging of each tank. Once the in-feed pump stops feeding water into the system, the PLC will allow time for chemical reaction within the processing tank, before automatically purging each tank. The PLC also automatically controls the voltage to maintain the amp setting.

■ Air actuated **Control Valves** for directing water flow (inlet and outlet).

■ **Compact Footprint** allows flexibility where the unit can be installed.

■ Simple and **Automated Operation** with one button control.

■ One **Electrical In-feed Pump** with two peristaltic pumps, PLC controlled.

■ **Integrated Design** accommodates interfacing of EC2-20A with other pre- and post-treatment equipment to create a totally self-contained wastewater treatment system.

■ In addition to an on-board, in-feed pump, the EC2-20A offers an optional **Clean Water Recycle Module**, which manages processed water (for recycle or discharge) as well as monitors and controls fresh-water makeup and excess water discharge.



Model EC2-20A
(P/N 1.103-486.0)

■ **Main Door** with quick-release lockable latch allows for easy service access; skid with carbon steel support frame and cabinet with a two part epoxy primer and polyurethane finish.

■ **Internal tanks** are cone bottom design with automatic purge system for easy sludge removal.



ETL Certified to UL-73 and CSA 22.2/68-69 Standards

PATENT PENDING

Note: As with any water treatment technology, the Water Maze EC2 system performs best when the system is not overwhelmed with high amounts of influent constituents in the waste water. Therefore, for some applications, additional pretreatment of the influent waste water may be required (i.e., adjustment of pH, removal of excessive amounts of heavy solids and free-floating oils).

EC technology does not normally remove dissolved solids or dissolved organic matter.

EC2-20A Specifications

Features	Description
Process Flow Rate	Up to 20 GPM
Compressed Air Supply	5 CFM @ 85 PSI
Electrical	230V 1ph 40 amps
Dimensions	78" L x 58" W x 81"H
Ship Weight	1,822 lbs
Available Options	- pH Controller - Stainless Steel Skid with powder coat finish - EC Flush Kit for treat & discharge applications