



MLC TECHNOLOGY



MAGNETIC BALLAST CLARIFICATION

The chemistry of MLC technology has been used globally for over 40 years. The cornerstone of our technology is how we remove the solids from the water. Our patented design can remove waste in seconds in what takes the older designs hours to achieve.

The design of our MLC technology offers many benefits. The dimensions of our units are small enough to fit into tight spaces and can be easily moved between locations. It will go to the water versus transferring the water to a central location which will decrease costs and risks.

The principal components of the chemistry in the MLC technology are common. The polymers used to flocculate the water, the magnetite used to reverse the charge of the flocculant and the coagulants, only necessary in specific industries such as tanneries, are easily accessible.

FEATURES

- Treat volume of water from 100 to 500 GPM (30,000 GPH)
- The 0105 MLC DIMENSIONS: 70" x 70" x 85"
- Modular Parts
- Requires 11.3 Kwh to operate
- Magnetite Classification: Chemical Abstract Services # 1317-61-9 CAS# 1309-38-2
- Magnetite is a primary additive
- No Bacteria is used
- Magnetic attraction is a fundamental property in the MLC technological process. Gravity is not a factor in substrate removal.

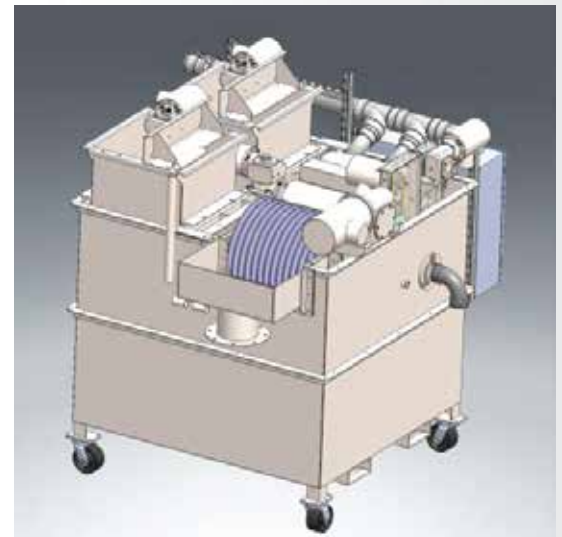
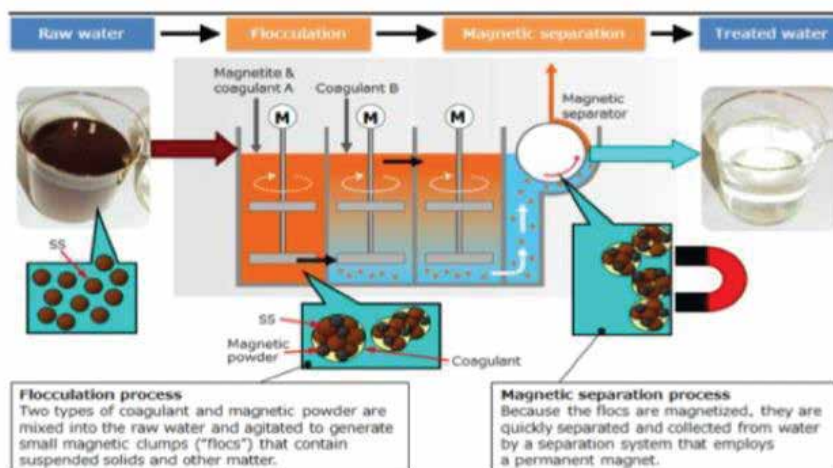
ADVANTAGES

- MLC increases capacity volume of water treatment
- Small footprint accommodations
- Motor and components are easily accessible
- Small Operational Costs
- Hazard Symbols and Risk Codes are minimal and not listed in properties of magnetite in sites like: www.chemnet.com
- The MLC technology is designed to reuse the magnetite through a unique shearing process.
- Management of bacteria life cycle is obsolete
- Since the substrates are removed as fast as they come in contact with our patented system the water is clarified quickly, making the SVI very low.

BENEFITS

- Manage Overflow from Weather Events
- Greatly reduces "standing time" of untreated water in lagoons
- Minimal capital investment for placement of unit
- Treat multiple locations
- Low maintenance cost and hours
- Lower energy requirement makes this machine easily run on a generator that is also located on the trailer
- Storage is easy: noncorrosive, nonexplosive
- Small operational costs
- Weather has no effect on productivity
- GHG eliminated
- Odor Greatly Reduced
- SVI is a standard that is used by regulatory agencies. The lower the number the better.

Explanation of technology:



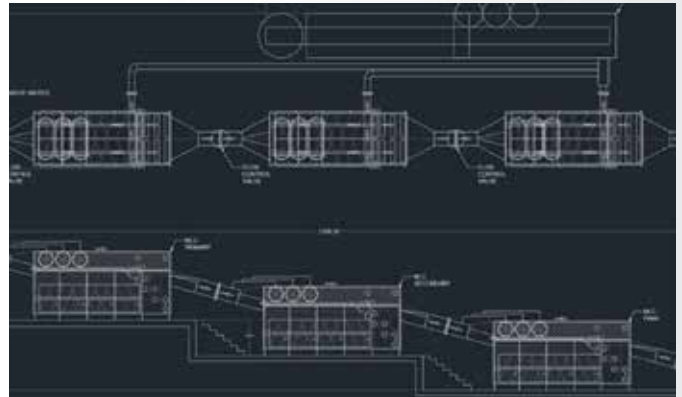
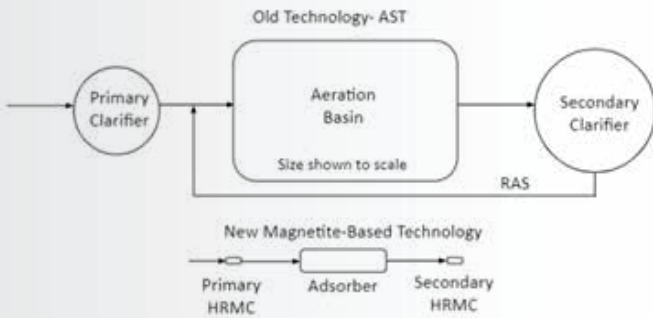
OUR PRODUCTS

Ecolinx 's patented technology provides clients with a versatile water clarification system that reduces the BOD and COD loads, eliminates over 99% of TSS, reduces heavy metals to lower than regulatory limits, removes inorganic and organic materials.

Our units are sized to meet the needs of the client. They are built to run 24 hours / 7 days a week or as a batch fed clarification system. Our flow rates range from 100 gpm to 6,000 gpm. The units are designed to be individual or linked together to clarify 25 MGD or stage treat water. All units can be either mobile or fixed.

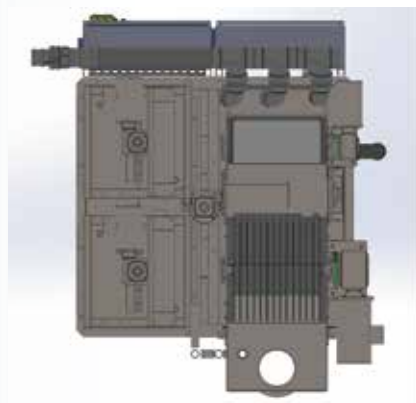
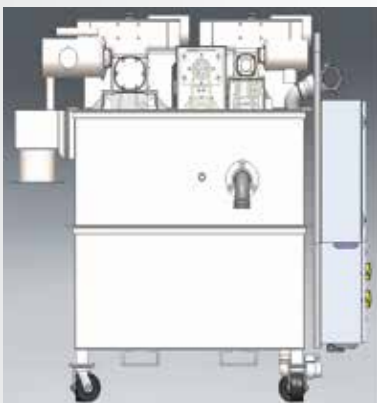
FOOTPRINT

Activated Sludge Technology (AST) vs. Our HRMC Technology
(15 MGD WWTP)



COMPARISON

Comparisons	RECLAIM Water MLC	Microfiltration	Clarifier/Sand Filter	Ion Exchange
Capital Costs	Medium	High	Medium	High
Operating Costs	Low	High	Low	Medium
Size	Small	Large	Large	Medium
Reliability	High	Medium	Medium	High
Fouling	Low	High	Medium	High
Solids Limits	High	High	Low	Low
Pumping	Low	High	Low	Medium
Cleaning	Low	High	Medium	Medium
Power Use	Low	High	Low	Low
Absolute Filtration	No	Yes	No	No
Flow Drop-off	No	Yes	Yes	Yes
Pressure Drop	Low	High	Medium	Medium
Sludge Volume	Low	Low	Medium	Medium



SIZES

Equipment Model Number	Flow Rate in Gallons per Day
01-0105-01	144,000 to 720,000
01-0510-01	720,000 to 1,440,000
01-1020-01	1,440,000 to 2,880,000
01-3060-01	4,320,000 to 8,640,000

BENEFITS OVER OTHER TECHNOLOGIES

Overcomes limitations of ALL other wastewater treatment systems

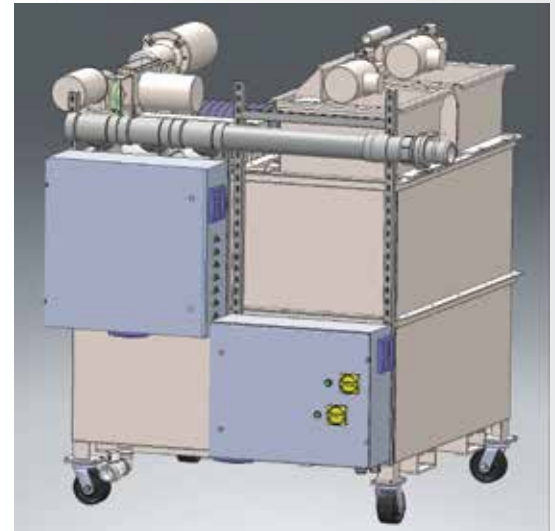
- Relieves land restrictions
- Low overall capital costs
 - Logical phased approach to new system implementation
 - Extends lifecycle of current systems
- Low operation costs
- Limited Maintenance required

Modular Units: Fixed or Mobile

- “Plug and Play” solution exceeds capacity of all other systems
- System mobility will address new or legacy pollution sources
- Equipment customized to current and future water flow rates.

Resource Recovery Options

- Removes the financial and environmental burden of sludge disposal
- Modular system facilitates sequential perception of heavy metals and inorganics in TSS



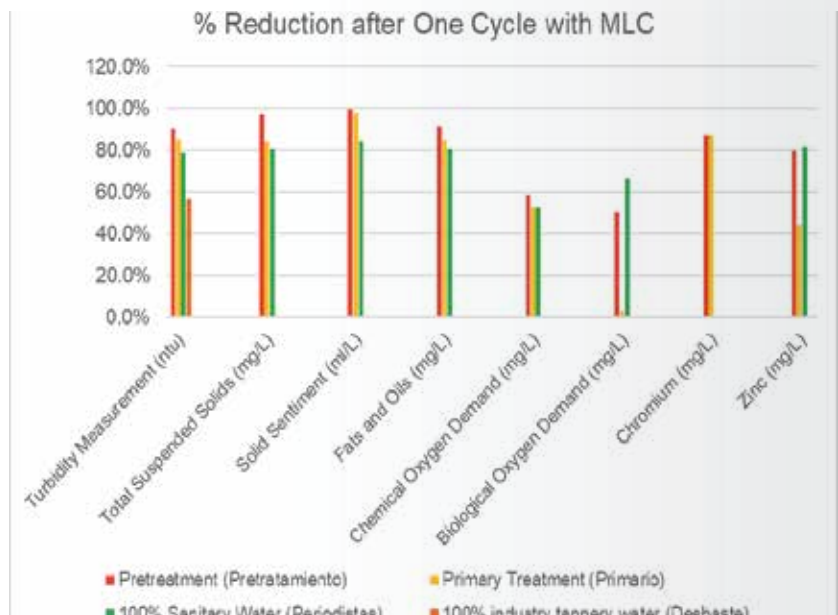
DEMONSTRATION RESULTS

December 2021, Demonstration in Leon Mexico

The Ecolinx team performed a test on 4 types of water at a municipal water treatment plant; including tannery water.

Demonstration was done with one unknown polymer provided by client, no coagulants, no pH adjustment.

And the results were amazing!



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* These costs are for continuous feed. For batch feed, please use the cost per gallon or cubic meter to determine potential costs. These costs are subject to change with fluctuations in chemical market pricing.

OPERATIONAL COSTS

Continuous Feed Option	Model 01-0105-01		Model 01-1020-01		01-3060-01	
	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
US Gallon Treated	22,000,000	262,800,000	84,400,000	1,036,800,000	3,153,600,000	37,843,200,000
Cubic Meters	83,333	995,455	319,697	3,927,273	11,945,455	143,345,455
	Operation Costs		Operation Costs		Operation Costs	
	Monthly	Yearly	Monthly	Yearly	Monthly	Yearly
Labor (\$15.00/hour)	\$390.00	\$4,680.00	\$717.60	\$8,611.20	\$1,291.68	\$15,500.16
Polymer	\$7,128.00	\$85,536.00	\$13,115.52	\$85,536.00	\$23,607.94	\$283,295.23
Electricity (\$1.69/KwH)	\$1,233.70	\$14,804.40	\$2,270.01	\$14,804.40	\$4,086.01	\$49,032.17
Magnetite	\$7.00	\$84.00	\$12.88	\$84.00	\$23.18	\$278.21
Totals	\$8,758.70	\$105,104.40	\$16,116.01	\$109,035.60	\$29,008.81	\$348,105.77
Coagulant (ex: Aluminum Sulfate)	\$1,620	\$19,440.00	\$2,980.80	\$35,769.60	\$5,365.44	\$64,385.28
Total with Coagulant (if needed)	\$10,379	\$124,544.40	\$19,096.81	\$229,161.70	\$34,374.25	\$412,491.05
Cost per Gallon	\$0.0004	\$0.0004	\$0.0002	\$0.0002	\$0.00001	\$0.00001
Cost Per cubic Meter	\$0.0004	\$0.0004	\$0.0002	\$0.0002	\$0.00001	\$0.00001