



Smart "IC" Water Treatment Systems

"IONIC CLARIFIER" TECHNOLOGY

Clear Water makes ALL the Difference!!!

The **Smart Ionic Clarifier** is a fully automated, PLC controlled water treatment system. This system effectively removes a wide range of contaminants from complex wastewater streams.

IC Technology is ideal for wash water recycling or discharge to sanitary sewer.

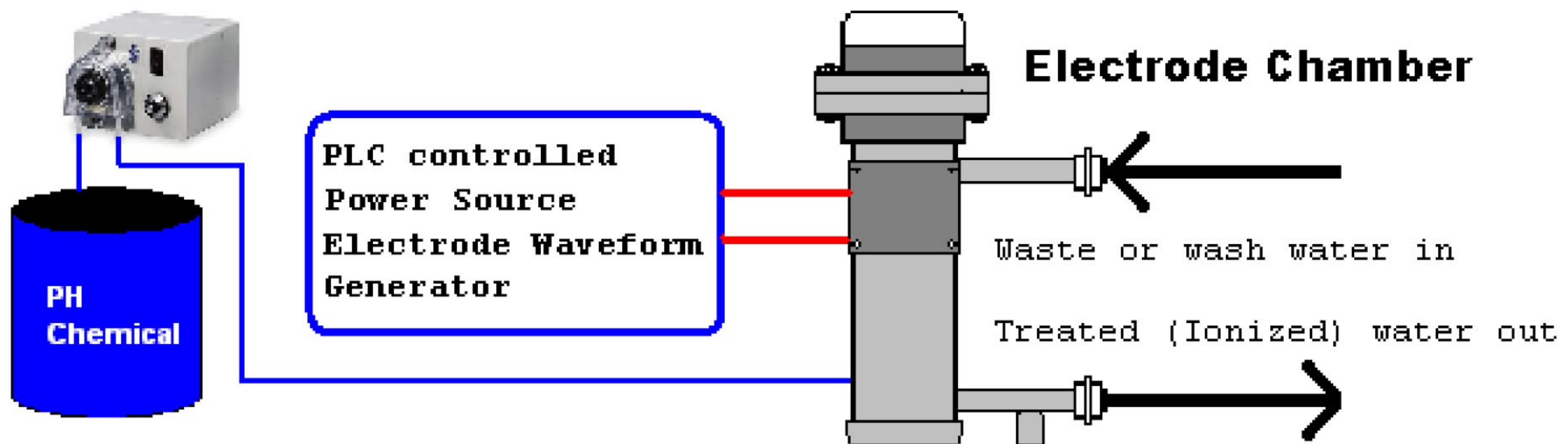
- Specifications:** The Smart IC will treat water at a rate up to 20 GPM.
- Cabinet: - steel with baked polyester powder coat finish
 - Electrical: - 230 V, 1ph - 30 amps
 - Dimensions: - 42" L X 30" W X 42" H
 - PH control – optional
 - Ship weight: - 700 lbs.



What is "IC" Technology and how does it work?

The "IC" (Ionic clarifier) system - processes and removes particulates, bacteria, emulsified oils, dissolved metals and many other contaminants in the waste stream by changing their electrical properties or "Ionizing" them. Once Ionized, the particles and contaminants begin to cluster or "Flock" together. The Flock then separates from the water and settles in a clarifier tank. The water is now ready to be reused or discharged.

Ionizing the waste stream is achieved by pumping the water through a series of Electrodes. A specially designed PLC controlled power source supplies the appropriate electrical currents at various voltages and frequencies to the electrodes.

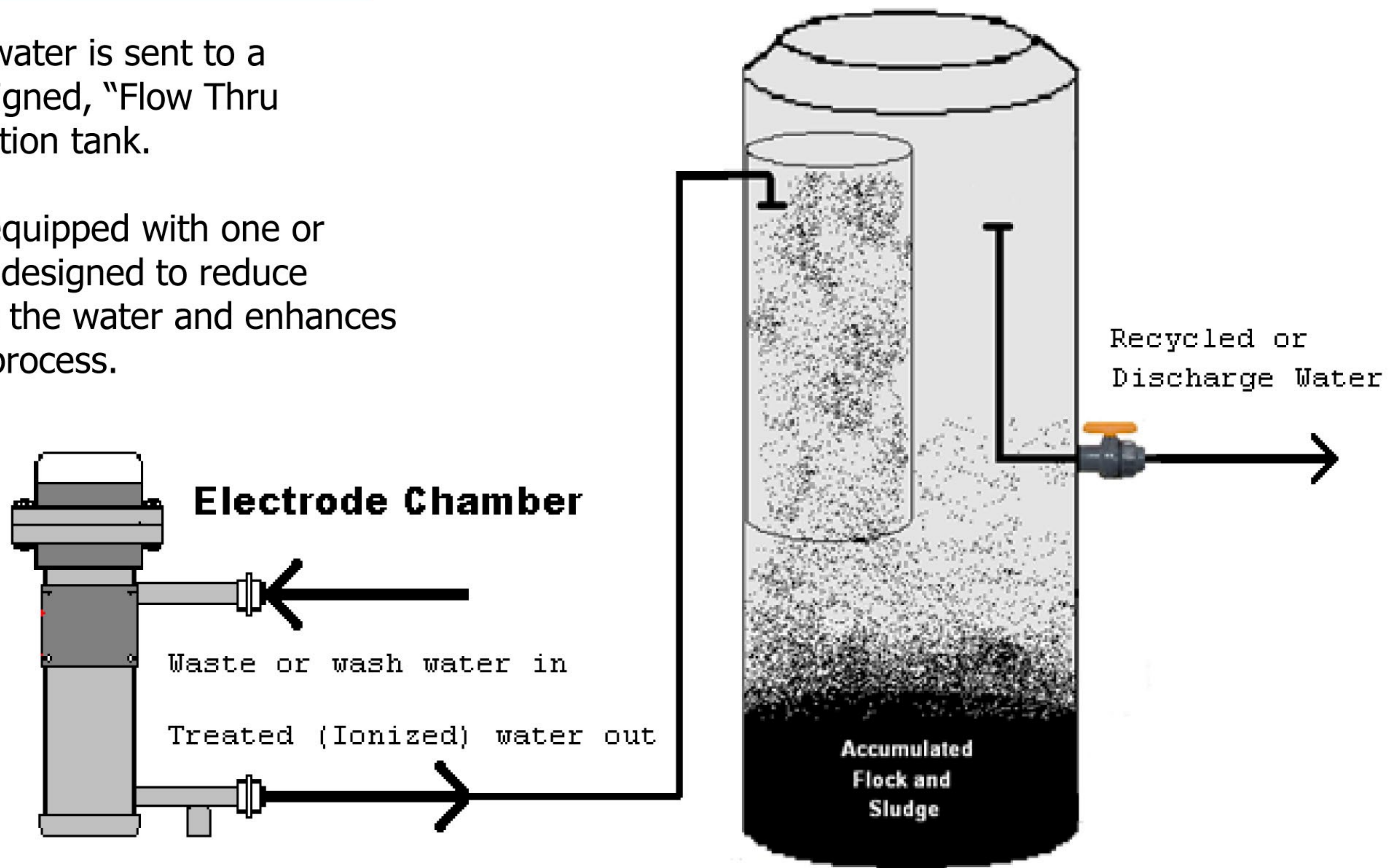


With many waste streams the Ionization process will cause the PH to become neutral. Waste streams that require additional treatment will be automatically adjusted via the PLC controller and optional PH chemical injector pump.

Flocking Process

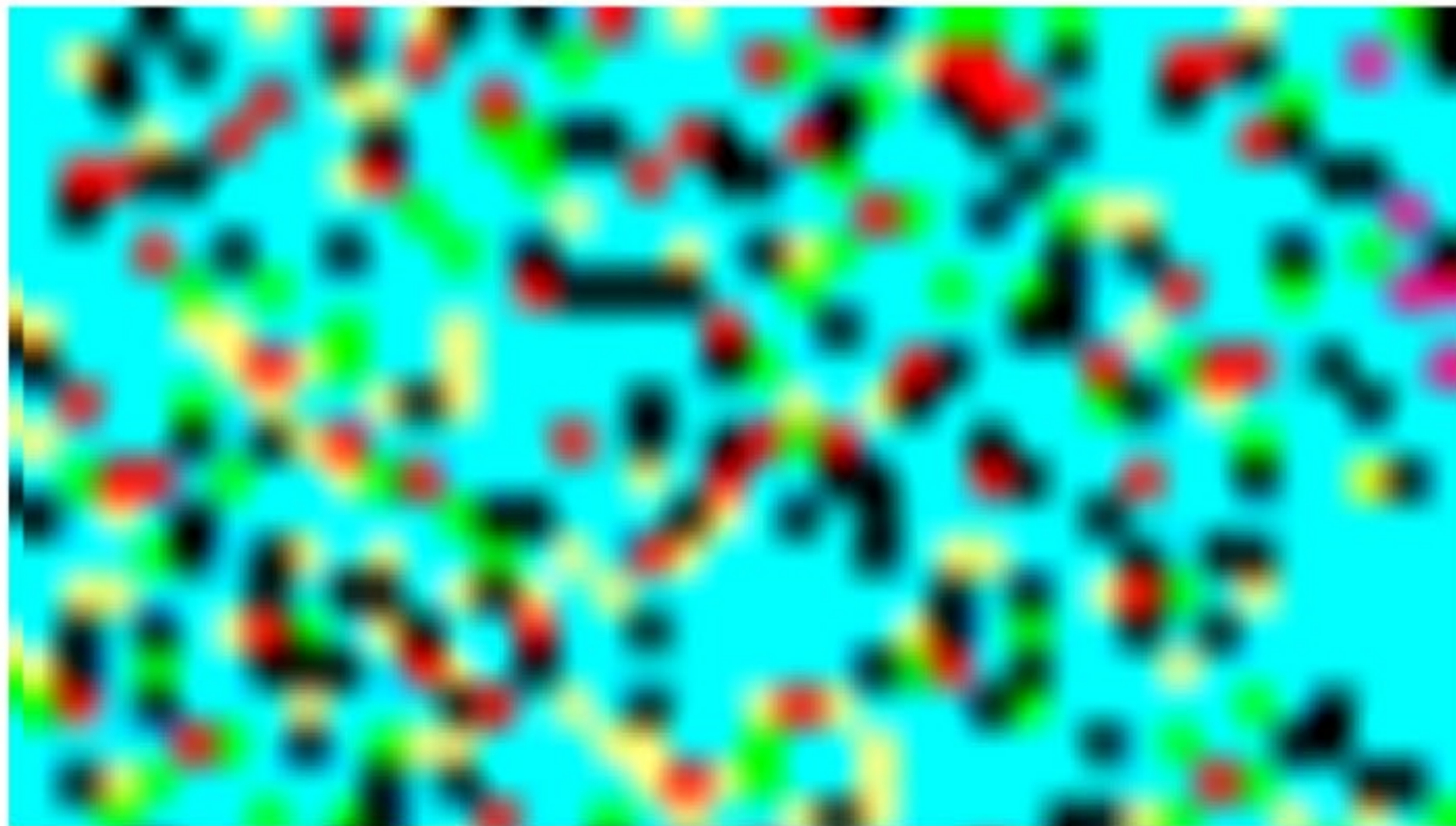
The treated water is sent to a Specially designed, "Flow Thru Style" separation tank.

This tank is equipped with one or more Baffles designed to reduce turbulence in the water and enhances the flocking process.

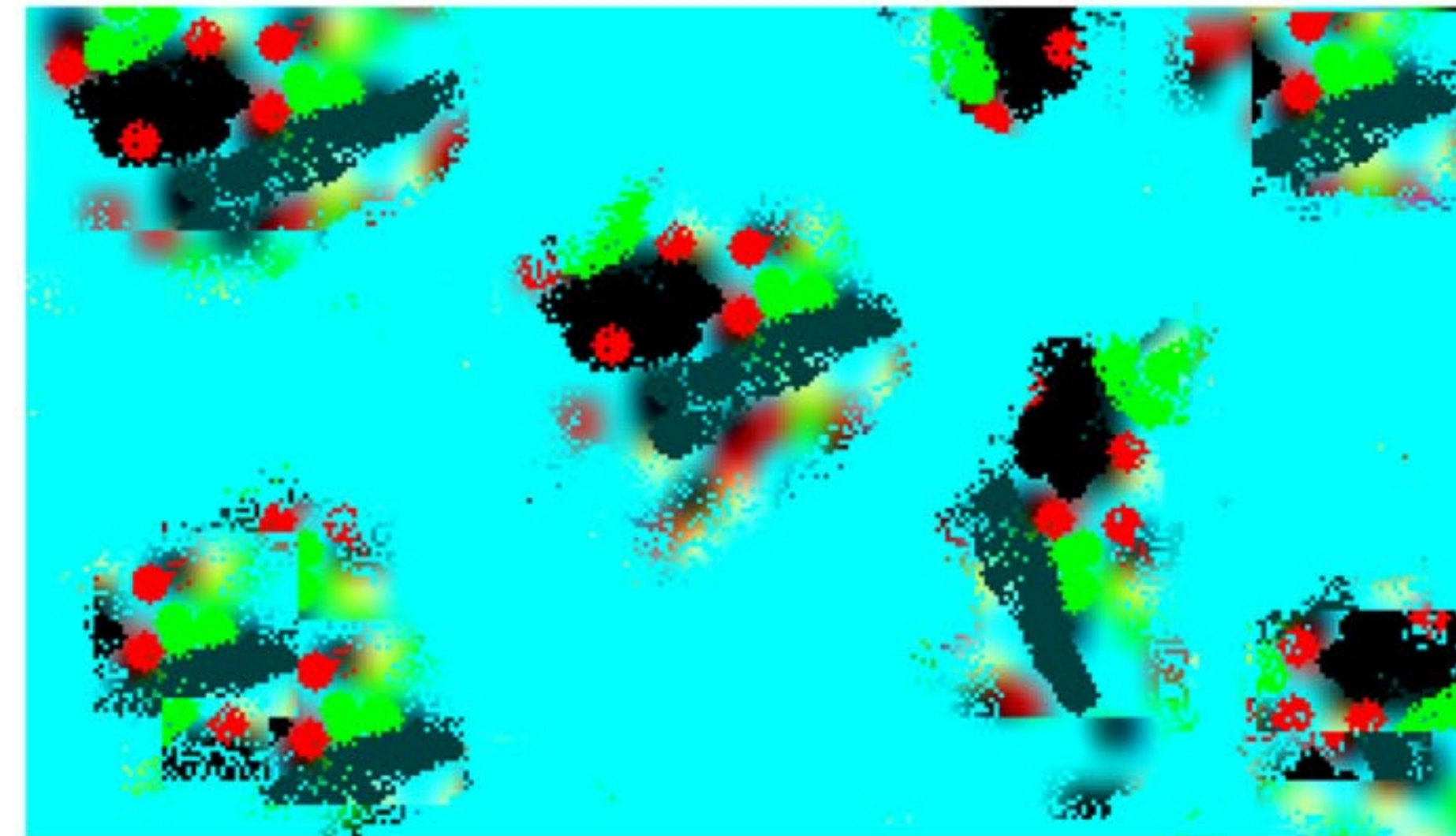


Ionized molecules and particles attract to each other. The result is the formation of clusters or "Flock". The condensed or "Flocked" particles now have enough mass and weight to sink to the bottom of the tank and form sludge. The result is water that is free of neutrally buoyant contaminants. **Clear Water Makes All The Difference!!!**

BEFORE



AFTER (Flocked)



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