

September 24, 2019 by ElectroSea

Once Installed, Crews Never Have to Descale Again

Minneapolis, Minn. — Barnacles don't just live on a boat's hull, they make their way into the raw-water system where they clog pipes and wreak havoc on air conditioners, refrigeration and other machinery that depends on this water for cooling. With the CLEARLINE System, marine growth in the boat's seawater lines is a thing of the past. That means no more descaling with hazardous, acid-base products and no more downtime due to high-pressure alarms from the boat's onboard air conditioner.

The CLEARLINE System from ElectroSea uses patent-pending technology to continuously prevent barnacles, biofilm, and marine scale from clogging the vessel's seawater conduits. This keeps raw-water lines for A/C, chillers, refrigeration and hydraulics running at peak performance with maximum flow rates. Once the CLEARLINE System is installed, the boat will never need descaling again, a costly process that is hazardous for the crews doing the work, as well as the marine environment.

The CLEARLINE System includes two key components, the Control Unit and the ClearCell, which is plumbed into the raw-water lines. When seawater enters the ClearCell, an electrochemical process generates a consistent, low level of chlorine, similar to what you'd find in tap water, but enough to keep barnacles at bay. The Control Unit monitors the vessel's raw water demand and dynamically delivers the precise amount of chlorine to prevent barnacle growth. Chlorinated water flows through the air conditioner, refrigeration and other systems, and a secondary flow of water runs back through the strainers.

Captains using the CLEARLINE System spend less time in the engine room now that they no longer have to deal with descaling. "Since we've had CLEARLINE, I haven't had to descale once," said Capt. Jim Brasher, who runs *Perseverance*, a 55-foot Viking Yacht. The CLEARLINE System has been retrofit on: Hargrave Custom Yachts, Hatteras Yachts, Ocean Alexander, Paul Mann Custom Boats, Princess Yachts, Weaver Boatworks, and Viking Yachts.

The founders of ElectroSea are lifelong boaters who saw a problem on their own vessel and used their product development expertise to solve it. "We applied our background in electrochemical systems, sterilants and filtration technologies to address a recurring issue in the boating community," says Louis C. Cosentino, Ph.D. "We know first-hand how frustrating and expensive it is to have a trip ruined because of marine growth in the A/C raw-water lines." The company's founders have over 100 U.S. patents in advanced technologies.