

Semler Industries, whose roots date back to 1905, has supplied the aviation industry with ground support equipment for over 45 years. Our reputation for durability and quality construction has made us the world-class leader in the potable water industry.

Our rugged stainless steel cabinet construction and high polish finish guarantee long life, and the easy-to-clean design promotes sanitary conditions. The electrical components are UL listed or UL Recognized. Customized options, including CSA approved components, are available to meet your specific needs.



Semler Industries Inc.

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AWOCS™

AIRCRAFT WATER OZONE CLEANING SYSTEM



Aircraft drinking water systems and aircraft watering points require periodic sanitizing and flushing. Traditional approaches are time consuming and their results are uncertain. A better solution is needed. AWOCS™ is the answer.

What is AWOCS™?

AWOCS™ is a cleaning tool developed to sterilize aircraft drinking water systems and potable water cabinets by using an extremely safe and effective cleaning agent called ozone.

Why Ozone?

Ozone is faster, safer, and more environmentally friendly than traditional chemicals. Ozone's ability to oxidize (kill) anaerobic organisms is 3000 times more powerful than chlorine. Yet as utilized in the AWOCS™, ozone presents no danger to workers. Ozone is nature's perfect biocide. There is no post-use residual, only oxygen and gray water. Both the EPA and FDA have investigated the AWOCS™ and both agencies found its process to be acceptable. (Letters of acceptance are on file).

AWOCS™	Other Approaches
Dramatic time saving tool	Long down time
No chemicals required	Cost of chemicals, inventory & protective equipment
No hazardous waste to dispose of	Requires disposal of hazardous waste
Requires one sanitary drain	Requires special waste containers
Displays results of sanitization in real-time	Post cleaning testing required to determine results could take days

UNITED STATES PATENT NO. US 7,311,817 B2 AND 7,351,329

AWOCS™

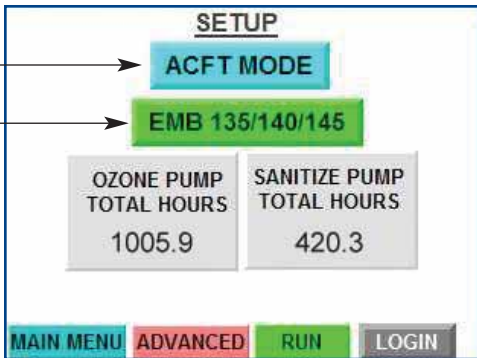
Currently sanitizing planes for the following airlines:

- American Connection
- American Eagle
- Chautauqua Airlines
- Comair
- Continental Express
- Delta Connection
- Express Jet
- Republic Airlines
- Shuttle America
- Southwest Airlines
- United Express
- U.S. Airways Express



AWOCS™ Touch Screen Displays

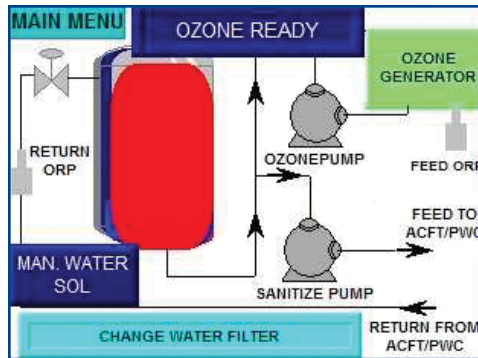
AWOCS™ touch screens show status and give maintenance personnel “check list” operating simplicity.



Main Set-Up Menu

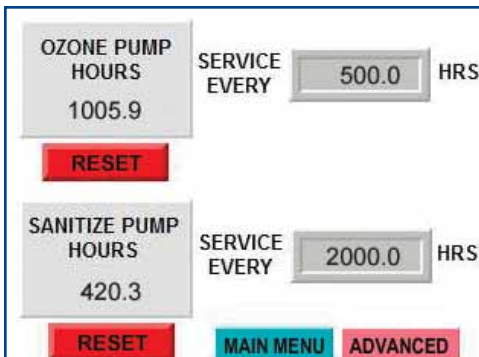
Select **ACFT** or **PWC** for use on Aircraft or Potable Water Cabinets respectively.

When in Aircraft Mode, the aircraft type is selected from a pre-programmed list, customized specifically around each customer's aircraft fleet.



Operations Display Screen

The operations screen is animated to show the operator exactly what's going on as the AWOCS™ unit sanitizes. The tank water level and both pumps change colors as the process advances. Two on-screen message centers communicate with the operator regarding system status and items that need addressing.



Pump Hours Display Screen

Semler pre-sets the recommended service hour intervals however the customer can adjust these as experience dictates.



AWOCS™ Instrument Panel

ORP stands for Oxidation Reduction Potential. It indicates the concentration of the aqueous ozone disinfectant being produced by AWOCS™. As Ozone disinfects it gets used up. AWOCS™ continually generates and circulates Ozone into the cleaning process until the Feed ORP and the Return ORP are at adequate and essentially equal concentrations. This indicates Ozone is no longer being used up because there are no longer active organisms present. Under these conditions the touch screen monitor will display a message signaling that this step in the cleaning process is complete.



AWOCS™ Unit In Action

Clean all your watering points with the newest, state-of-the-art technology, AWOCS™ by Semler Industries. The latest addition to an already great line of ground support equipment.

Sanitize your aircraft water systems and potable water cabinets at the speed of flight...

- NO chemicals
- NO hazardous waste
- Real-time results



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AWOCS™ users have experienced a **50–75%** decrease in sanitizing time over their previous cleaning methods.