URSA Essential Water Systems offers a sustainable alternative to bottled drinking water and disinfection liquid.

Our experience and network in the shipping industry, as well as our global reach, allow us to develop products that are available all around the globe, save costs to ship owners, and most of all, help reduce ships´ environmental footprints by reducing plastic litter.

URSA Essential Drinking Water Unit
Simple and easy to install and maintains advanced filtration unit, specifically made to filter freshwater stored onboard ships into crystal clear drinking water.

- On-demand drinking water, always fresh and crisp
- Reduces and ultimately removes the need for plastic bottles
- Easier logistics without concerns about drinking water supplies

URSA Essential Disinfection Unit
Affordable and on-demand generation of disinfectant that can be used to clean all surfaces on a ship. Crew can use it to disinfect their hands as well.

- Non-toxic, non-hazardous
- On-demand self-production of disinfectant that can be reused
- Solution made of salt of water so zero environmental impact if spilled

*BS EN microbiology test certificates available upon request.

About us

URSA AS is a privately owned company registered in Norway, and a subsidy to Mouawad Consulting AS, which is a leading firm in Environmental Engineering with specialization in Ballast Water Management onboard ships.
URSA AS delivers services and products to ships, like maintenance and spare parts to BWMS, and a new series of drinking water and disinfectant equipment, URSA Essential Water Systems.

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The future of sustainable systems on ships

URSA Essential Drinking Water

URSA Essential DW is a four-stage ultra-filtration system which is also equipped with a pre-filter to ensure simple and convenient purified water. It is supplied inside a high impact metallic cabinet and a spare part package that is sufficient for 2 years of normal operation.

The system comes in a box ready to be connected to the ship´s freshwater system, be it in the accommodation area or in the engine room.
Optional cooling unit is also available.

- Robust metallic cabinet for rough ship environment
- Pre-filter
- Four-stage filtration including a mineral filter
- Faucet with simple handle ready to start operation
- All parts and tools needed for simple installation and operation onboard a ship for 2 years

How does it work?

The International Maritime Organization (IMO) is discussing through an own working group, the problem of plastic waste in the oceans. URSA has developed a solution that helps reduce plastic waste, improve the working conditions onboard the ships as well as benefit the ship owner through reduced cost.

- Sadly, at least 8 million tons of plastic end up in our oceans every year. Every day around 8 million pieces of plastic makes their way into our oceans.
- Reducing bottled drinking water will have a positive effect and be a good step towards reducing and finally eliminating the use of plastics on ships.
- URSA Essential Water Systems is a new series of sustainable and chemical free drinking water and disinfectant products, that are specifically built to work onboard ships.
- Our products have proven records for long-term operation on ships and we deliver solutions to some of the largest shipping companies around the globe.
- Our systems can fit into all types and sizes of vessels, and stand out from competition by offering a marine focused product.

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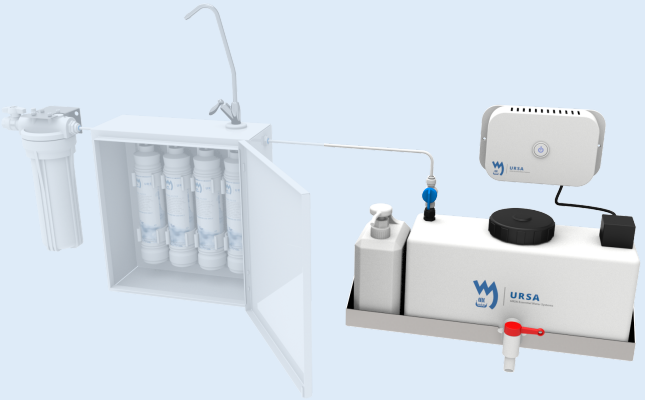
URSA Essential Disinfection

URSA Essential D is an electrochemical activation cleaning and sanitizing system which is the most environmentally friendly way to produce disinfectant liquid onboard ships. It only uses water and table salt to produce a highly effective, non-toxic and non-hazardous liquid that can sanitize surfaces onboard as well as disinfect hands.

The solution has undergone stringent EN microbiological tests and has UK and EU biocide regulations certifications.

The components are activated using a form of electrolysis whereby hypochlorous acid, which is a powerful and safe disinfectant, and sodium hypochlorite solution, an effective cleaning agent are produced. Together, they create a powerful, naturally-occurring disinfectant cleaner and sanitizer that is safe, non-toxic, hypoallergenic, environmentally friendly, with hardly any cost.

- Simple to install and operate with only salt and water as ingredients
- Solution lasts for 72-96 hours and can be recycled for reactivation
- It can be also used in pipes to remove biofilms
- Standard package comes with dispensers ready to be operated and can produce 30-45 liters per day.