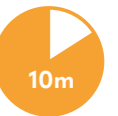


SAVE TIME
SAVE MONEY
SAVE NATURAL
RESOURCES

ANOSAN ECO® YACHT EDITION FOR AIR AND SURFACES

DISINFECTION IN LESS THAN 10 MINUTES

ANOSAN eco is an ideal disinfectant **without any toxic substances** that protects staff members and charter crews. During the whole disinfection process, work onboard can continue without interruption, and the ship's interior remains fully accessible **without any need for protective wear**. ANOSAN eco, for the benefit of health and the environment.



- extremely time-saving
- 99.99% efficacy against bacteria, viruses, spores, and fungi
- eliminates odors and mold spores
- no accumulation of pollutants
- no protective equipment required
- no interruption of operation



21st century water-solution

A small step for the charter industry, a big change for the world

Today, over 4 billion people worldwide lack safely managed water sanitation services. It is a worsening problem and some aspects of it directly address the yachting industry. The consequences of water scarcity are not limited to lack of water; they manifest also as environmental pollution and higher cost of drinkable water.

As it is the case with most environmental issues, the problems of tomorrow must be addressed today, to even stand a chance of being solved. Pollution, but also the cost of drinkable water will become a pressing issue in the yachting and yacht-charter industry.

The world population bought 70 billion water bottles last year. For every six bottles people buy, only one is recycled. That leads to a big problem given the fact that water bottles do not biodegrade, but rather photodegrade. This means that it takes at least up to 1,000 years for every single bottle to decompose, leaking pollutants into the ocean or soil. As a result, oceans and landfills are overflowing with 5 million tons of discarded water bottles. Of those, only 12 percent are recycled. And because plastics are produced with fossil fuels, not only does that make them an environmental hazard, but also an enormous waste of valuable resources. As an example, it takes almost 2,000 times the energy to manufacture a bottle of water than it does to produce tap water. Furthermore, it takes 40,000 18-wheeler trucks on our roads just to deliver our bottled water each week.

An average person drinks in average 0,35 L of bottled water per day. This average approximately doubles in summer months, or more precisely, during a sailing holiday. An average charter yacht will thus require about 29,4 L of bottled water or about 20 plastic water bottles per week. The worldwide charter fleet, throughout a year, will consume 5 million plastic water bottles.

Plastic is one of the most polluting material for the ocean. We are talking about a material that could take up to 1,000

years to biodegrade. For the first time a study led by the prestigious magazine Science, quantifies the plastic that ends up in the oceans; more than 8 million tons of plastic bottles in the sea each year and it is estimated that in the year 2050 there will be more plastic than fish in the sea.

Abandoning plastic-bottled water at sea would have a huge impact on the environment, in countless ways, easing pressure on the already overwhelmed recycling system, saving marine life and finally preserving human health.

Our health is fundamentally linked to the oceans. Over 70% of the oxygen produced in the atmosphere is produced from marine plants (phytoplankton), despite the misconception that is primarily land-based flora. The colossal amount of plastic dumped into our oceans ends

up getting inadvertently consumed by marine life, making its way into our (human) food chain and our meals. Most of the food we source and consume from our oceans have all ingested plastic in one form or another.

Sanitizing water for human consumption through chlorination was started in the 19th century. Chlorine is a naturally occurring chemical element, one of the basic building blocks of matter. Scattered throughout the rocks of Earth's continents and concentrated in its salty oceans, chlorine is an essential nutrient for plants and animals. For over 150 years chlorine has been one of society's most potent weapons against a wide array of life-threatening infections.

Microorganisms can be found in raw water. While not all microorganisms are harmful to human health, there

are some that may cause diseases in humans. These are called pathogens. Pathogens present in water can be transmitted through a drinking water distribution system, causing waterborne disease in those who consume it.

Chlorination is one of many methods that can be used to disinfect water. It is a chemical disinfection method that uses various types of chlorine or chlorine-containing substances for the oxidation and disinfection of what will be the potable water source.

Chlorine can be toxic not only for microorganisms, but for humans as well. To humans, chlorine is an irritant to the eyes, nasal passages, and respiratory system. Chlorine gas must be carefully handled because it may cause acute health effects and can be fatal at concentrations as low as 1000 ppm. However,

The subsidiary of blueplanet Investments called ecabiotec AG based in Germany has researched for 18 years to develop a solution that is solely based on pure water and salt. The result is ANOSAN®, a highly oxidizing disinfectant that not only is non-toxic for humans and animals but also does no harm to the environment. It kills 99.995% of bacteria, viruses, fungi and spores. Additionally, it is free of alcohol, aldehydes, dyes & scents, non-staining, hypoallergenic, nonirritant and pH neutral.



chlorine gas is also the least expensive form of chlorine for water treatment, which makes it an attractive choice regardless of the health threat.

In the 21st century, there has been breakthroughs in sanitizing water without chlorine. The idea is to replace all chemical, toxic, and environmentally harmful ingredients in water-based processes. These processes include water purification, disinfection, hygienic disinfection, agriculture, and food processing.

One of these ideas is water sanitation through mineral disinfectants that are 100% biodegradable and residue-free. Furthermore, the solutions must not be harmful to skin and eyes. The focus is on supplying clean and safe drinking water and improving hygiene standards on an ecological basis.

In yachting, there is already at least one solution that has all the makings of a 21st century water disinfectant. The company ecabiotec has launched

a product that can be applied to water tanks & piping systems, to eliminate biofilms and make water drinkable, with no corrosive or aggressive effect, no residual toxins or biological residue.

21st century water-solution in yacht charter

Water tanks on vessels constitute self-contained spaces with long idle times that enable the proliferation of bacteria and fungi. These contaminations of the water as well as other germs on surfaces cause bad odors and pose a threat to the health of guests and staff. Sanitizing of the tanks was always a procedure to be undertaken before or after the summer season, while during the months in operation this just was not possible.

With the new mineral solution, no interruption of operations is necessary. Disinfection of water tanks on a regular basis throughout the summer should be standard to ensure comfort and safe

drinking water for all passengers on board. Additionally, plastic waste is reduced, as water from plastic bottles can be replaced. A great step towards sustainability.

These initiatives are timely because many governments are considering policies that will potentially reform the landscape for water management and recycling. Experts say action, ambition and investment are all urgently needed to make plastic packaging recyclable, but also encourage customers to avoid plastic packaging completely.

Reforms are urgently needed to overhaul the old producer responsibility system, which is designed to meet EU targets for recycling at a low cost to industry, rather than obligate companies to collect and recycle their own packaging. Soon time will come when the producer responsibility increases multifold and then the costs of production and recycling plastic will skyrocket. Avoiding plastic will be the only way to lower cost in a sustainable way.



ANOSAN AQUA® YACHT EDITION WATER DISINFECTION

GET DRINKING WATER FROM THE TANKS!

1 litre of ANOSAN AQUA purifies **1000 litres of clean drinking water!** ANOSAN immediately and safely kills germs, including viruses by removing their cause, the **biofilm of tanks, pipes, and fittings.** Drinking water from the tanks profoundly increases the comfort of the charter crews. Besides, countless plastic water bottles are replaced, which leads to **plastic waste being reduced.** A big step towards sustainability – **to protect the environment, we should act towards it!**



- kills germs and viruses in 60 sec
- degradation of biofilm
- neutral in taste and odor
- no alcohol, aldehydes, bleach, or other chemical substances
- no corrosive effects
- 100% biodegradable

