



Pool & Spa

Water treatment solution



Keep it clean

Pool and spa treatment onboard cruise vessels is paramount. We supply the necessary tools to help you comply with the demanding requirements of the Vessel Sanitation Programme (VSP). It is essential that your facilities are kept operational, with the minimum of downtime for cleaning and sanitation. You also need to be sure that you follow ecologically sound practices to limit damage to the natural environment.

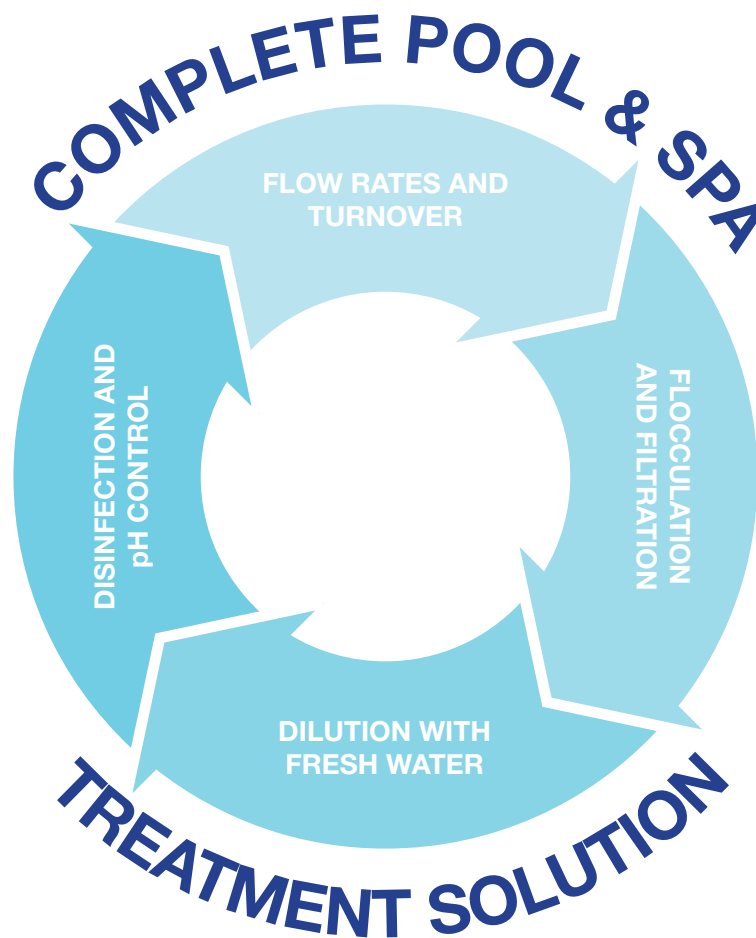


The objective of pool water treatment is to keep the pool and spa water in a safe and pleasant condition for the users.

- Keep the water free of bacteria
- Keep the water free from growth of algae
- Ensure the water is neither toxic nor irritating to the users
- Prevent the formation of undesirable smells or tastes in the water
- Prevent corrosion of the pool surroundings, its fittings and equipment
- Prevent scale formation in the pool, filter or pipework

Control of pool and spa water

Good water circulation is important to keep water clean, healthy and to comply with the Vessel Sanitation Programme (VSP). The diagram below illustrates various operations of pools and spas, and provides you with an overview of the water treatment programme required to maintain good and clean water quality.





CONTROL OF POOL AND SPA WATER AND SURROUNDINGS

Wilhelmsen Ships Service gives you the tools needed to achieve proper pool and spa sanitation and cleanliness while maintaining compliance with the Vessel Sanitation Programme (VSP) and US Public Health (USPH) regulations. We provide the means to efficiently monitor and dose optimised chemical products and perform all mandatory and optional testing.



IMPROVE FLOW RATES THROUGH THE FILTER

Every pool requires dedicated filter systems in order to maintain a satisfactory turnover rate. However, as the filters become blocked, the flow rates decrease, leading to further accumulation of pollutants in the pool.

OUR SOLUTION: We supply cleaning and disinfection chemicals for filter cartridges and filters.



FLOCCULATION CONTROL

The main purpose of the filter is to remove particulate matter and debris from the water. However, not all materials will be trapped in the filter and may continue to circulate in the water, resulting in a cloudy appearance. To remove these materials, you must make use of flocculants.

OUR SOLUTION: We supply flocculants and defoamers for pool and spa purposes.



MONITOR DILUTION WITH FRESH WATER

Disinfection and filtering alone will not destroy all pollution in your pool. Some pollutants, such as organic chloramines and by-products of the disinfection process cannot be broken down by chemical means. They can only be reduced by dilution with fresh water, in carefully regulated quantities.

OUR SOLUTION: We supply test kits, and automatic monitoring and dosing equipment.



DISINFECTION AND pH CONTROL

In order to keep pool water free from bacteria and algae growth, and to ensure that the water is not irritating or toxic, it is essential to maintain optimal disinfection and pH control. This will also prevent the water from developing unpleasant tastes or smells.

OUR SOLUTION: We supply disinfectants and products to regulate pH and alkalinity levels.

More than just a chemical supplier

Our pool and spa offer is more than just delivering products. It is about understanding the technical, regulatory, and commercial requirements of your vessels, and the operational challenges you meet every day.

Our solutions provide the vital balance between better business and a cleaner environment. We use only environmentally adapted surfactants. We aim to reduce and ultimately eliminate artificial solutions from our formulations.

We continually strive to meet our customers' demands for increased product performance while improving the impact on health, safety and the environment.

Our quality standards are amongst the highest in the chemical industry. Anti-pollution regulations in Norway, where our Unitor chemicals are manufactured, are recognised as being amongst the strictest in the world. Our global standards apply to all chemicals, including those produced in other locations.



With our standardised products and our international delivery network, we are able to offer you a complete solution globally.



*Unitor Chemicals' ISO 9001 and ISO 14001 certification covers product development, production, warehousing, promotion, and international distribution.

It's our environment,  **Act now!**

Unitor Pool & Spa product line

Product name Chemicals

Description

Bromine Tablets

Disinfectant suitable for use in pools and spas. Slow dissolving for accurate time release.

Sodium Hypochlorite Calcium Hypochlorite

Disinfectant suitable for use in pool, spa and potable water treatment.

Spa Defoamer

Specialized polymer to eliminate foam formation in spas.

Pool Clarifier

Highly concentrated polymer formulation that quickly clears cloudy pool water.

pH Increaser

Suitable for use in pool, spa & potable water. Raising the pH of the water with minimal effect on overall alkalinity.

Sodium Bicarbonate

Increases total alkalinity of recreational water.

Muriatic Acid Sodium Bisulphate

Used to reduce the pH in pool, spa and potable water.

Pool and Spa Hardness

Boosts the calcium hardness to prevent corrosion, etched plaster and other problems resulting from low calcium level.

Pool Surface Cleaner

For removal of scum along the water line. Quickly eliminates oil, grease, light scale and fresh stains.

Test kits

PoolCheck 6 in 1 Kit

Comparator for testing of Cl, pH, calcium hardness, total alkalinity, cyanuric acid and acid demand. Comes in one box containing 6 kits with 20 tests per kit.

MD 100 3 in 1 Kit

Photometer for testing of Cl, pH and cyanuric acid, 100 tests per kit.

MD 100 6 in 1 Kit

Photometer for testing of Cl, Br, pH, alkalinity, calcium hardness and cyanuric acid, 100 tests per kit.

MaxiDirect

Photometer set up for testing of pool, spa and potable water, programmed for 14 test parameters, 100 tests per kit.

MultiDirect

Photometer that can be used for most of the water tests carried out onboard the vessel. The parameters and test reagents will be agreed based on requirements.

For advice and more information on our pool and spa solutions which fit your needs, please contact the Customer Services around the world or your local customer representative. All our products have Wilhelmsen Ships Service Material Safety Data Sheets (MSDS's) attached. More information on specific MSDS's can be found at www.wilhelmsen.com/shipsservice.

Pool&Spa

Your complete solution

- Globally standardised product range
- World-wide availability
- Tailor-made supply programmes customised for your vessel's itinerary



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