

If you own a spa pool or hot tub, it is important to understand that it requires a certain amount of owner maintenance to ensure it operates properly and that the water remains clean and healthy.

The water treatment requirements for a spa pool differ from those for a swimming pool, because you are dealing with hot water. Hot water requires different treatment to prevent the growth of viruses, bacteria and algae.

SPECIAL NOTE:

DO NOT MIX CHEMICALS
DO NOT ADD WATER TO THE CHEMICALS,
ONLY ADD CHEMICALS TO THE WATER

The correct use of chemicals will maintain the water in a clean and healthy condition. The parameters that need to be regularly checked are, total alkalinity, pH and sanitiser (Chlorine or Bromine) level.

Your spa retailer or local SPASA pool shop should be able to supply a suitable test kit and advise on its correct use. It is advisable to test the water on a daily basis.

CHANGING THE WATER

The spa water should be changed every three to four months, or remove and replace approx 30% or 1/3 of the volume of water every three to four weeks.

TOTAL ALKALINITY

The total alkalinity should be in the range of 90 - 150 ppm (parts per million). A spa or hot tub with low total alkalinity would require constant adjustment of the pH.

To raise total alkalinity, add sodium bicarbonate in small quantities. To lower the total alkalinity, add acid (Hydrochloric Acid) in small quantities. Test in one hour.

THE pH LEVEL

pH is the measure of the acid/alkaline level of the water. It is important to maintain the correct pH level as it effects the action of other chemicals.

The pH is measured on a scale of 0 to 14. Seven is neutral, below seven is acidic, and above seven is alkaline

Incorrect pH levels can cause poor chlorine or bromine efficiency, eye and skin irritations

RECOMMENDED LEVELS

* Total alkalinity	90 - 110 ppm
* pH	7.4 - 7.6
* Chlorine	2 - 3 ppm
or	
* Bromine	3 - 4. ppm

corrosion of metal fittings, cloudy water and formation of scale on the pool walls and fittings.

Continued over

The pH should always be above 7.0 (measured at room temperature, not hot) to avoid possible corrosion of equipment. However, it should not be higher than 7.8, as this would reduce the efficiency of the sanitiser.

If the pH needs to be increased, add soda ash; to reduce the pH, add acid. Wait for one hour and test again.

SANITISING THE SPA

Sanitising your spa is essential for safe, healthy water, free of harmful micro-organisms. The most common forms of sanitiser are chlorine and bromine. Ozone may also be used, but because there can be no residual, chlorine or bromine must be used in conjunction with it. Salt Water Chlorinators must be of sufficient capacity to maintain the recommended chlorine residual.



The amount of disinfectant required depends on a number of factors, including, water temperature, the frequency of use and the number of people using the spa. It is most important to always keep the sanitiser level at 2 to 3 ppm. In very hot water the sanitiser can be used up very quickly, and should be checked regularly whilst the spa is being used.

After heavy use of the spa or on a weekly basis, the water should be shock dosed with chlorine or bromine. Be sure to check the level again before use.

If the spa or hot tub is not being used, add sanitiser every day to prevent contamination.

It is important to note that if the right pH and sanitiser levels are maintained, viruses and bacteria should not survive in the water.

In terms of general hygiene, it is important to keep the filter and pump clean. Clean the filter regularly and empty hair and lint from the pump as often as required.

FOR SAFE AND ENJOYABLE USE

Children should be supervised at all times when either in or near the spa or hot tub.

Alcohol should not be drunk while using the spa.