

# GETTING THE MOST OUT OF YOUR **ULTRAZONE** SPA SANITATION SYSTEM

**Congratulations on your purchase of the revolutionary UltraZone Spa Sanitation System.**

**UltraZone features AOP (Advance Oxidisation Process) technology to help deliver incredibly crystal clear, clean & healthy spa water with minimal chemical odours or associated eye, skin and respiratory irritation.**

UltraZone helps clarify your spa water by generating a powerful hydroxyl free radical that oxidises dissolved solids in the water making them insoluble so the filter can catch them, it then quickly converts back to oxygen leaving no chemical residual or off gassing odours. UltraZone uses Ozone generation AND UV-C sterilisation to kill 99.95% of all bacteria and virus material that pass through the UltraZone Unit. UltraZone also breaks down and removes chloramines which are the by product of chlorine which causes the skin, eye and respiratory irritation typically associated with chlorine.

This process makes the task of managing the quality of your spa water much easier. It leaves you with much clearer water, significantly reduced need for chemical sanitisers, and greatly reduced chemical odours. UltraZone also significantly increases the length of time between the need to change the spa water.

**AS GREAT AS ALL THIS IS, ULTRAZONE DOES NOT ELIMINATE THE NEED FOR RESPONSIBLE WATER MAINTAINENCE. SOME BASIC WATER CARE IS STILL REQUIRED. PLEASE FOLLOW THESE SIMPLE INSTRUCTIONS TO GET THE MOST OUT OF YOUR ULTRAZONE SYSTEM AND ENSURE SAFE, HEALTHY SPA WATER FOR YOUR FAMILY'S ENJOYMENT.**

## **Start Up:**

### **Balance the Water**

The first thing to do once the spa has been filled is to balance the water. Using a 4:1 or 5:1 Test Strip or Test Kit, check the water's Total Hardness, Total Alkalinity, pH and free sanitiser. Adjust these levels as necessary to the following recommended levels:

Total Hardness	200—400ppm
Total Alkalinity	80—120ppm
pH	7.2—7.6ppm
Sanitiser (Free)	1.0 to 2.0ppm min

Balanced water is critical to ensure harmful corrosion does not occur to the spa equipment and fittings. It is also required to ensure effective sanitation. Consult you local Pool/Spa Professional for advice on chemicals to use to adjust the above levels and how much to use.

### **Set Filtration Time Cycles**

The UltraZone System starts and runs with your filtration cycle. The longer the filtration cycle, the better the UltraZone System will work. If the filtration cycle is not running, the UltraZone System is not running.

Time required for adequate filtration cycles varies from spa to spa depending on the size, usage and plumbing method. A general rule of thumb is 4 to 6 hours a day for regular spas and 6 to 8 hours per day for swim spas. Your spa may need less than this, or more. Adjust the time cycles as appropriate. If power consumption is a concern, the UltraZone System only uses 0.14amps and is typically run off a low speed or circ pump which draw minimal electricity.

## Shock Treatment

### New Spas

New spas are water tested in the factory prior to shipping. Water can remain in the spa filter, pumps, and plumbing whilst the spa is transported or stored. When the spa is eventually installed and filled, it is a good idea to thoroughly shock treat the spa and flush out all the plumbing lines with a sanitiser at shock dose levels.

With all the Jets running, add enough sanitiser to achieve a 10ppm reading on your test strips.

Maintain this level for 2 to 3 days running all the pumps for at least 40 minutes per day. If your spa is fitted with a spa blower, make sure this is run for 1 minute every day to purge these plumbing lines also.

**It is recommended not to use the spa until the shock treatment level has fallen below 5ppm.**

Having successfully completed the shock treatment, you can now let the sanitiser level fall to around 2ppm.

### Retrofit Spas

If installing UltraZone on an existing spa, it's a good idea prior to the install to add a pipe flushing chemical product (available from most pool stores) to the water and follow the instruction to adequately flush out the spa plumbing. Material can build up in the spa plumbing over time and it is a good idea to flush the plumbing each time prior to emptying the spa.

Once the plumbing has been flushed, empty the spa and refill. Then follow shock dose instructions above for new spas.

### Regular Use of Sanitiser

**Whilst UltraZone will eradicate 99.95% of all bacteria and virus material that passes through it, it does not put anything into the water that remains in residual. Therefore a supplementary sanitiser must be used.**

There are various chlorine and non chlorine based sanitisers or sanitising systems on the market. UltraZone is compatible with them all, however it is recommended NOT to use cyanuric or calcium based chlorines such as DiChlor or Calcium Hypochlorite. These types will cause the water to go cloudy.

If a chlorine based sanitiser is your preference (remember the UltraZone System will greatly reduce chlorine smell and irritation if this is a concern), we would recommend Lithium Chloride for shock treatments and regular dosing. Lithium Chloride dissolves rapidly into the water and leaves little residue. This makes it great for shock treatments and ease of application.

It is recommended you maintain a trace element of sanitiser in the spa at all times and shock treat once a week or immediately after any heavy usage of the spa. The UltraZone System will dramatically reduce the sanitiser requirement (by as much as 70%) **but you will still need to add some sanitiser.**

**IF THERE IS A LAPSE IN YOUR WATER MAINTAINANCE ROUTINE AND THE WATER LOSES ITS QUALITY, FOLLOW SHOCK TREATMENT STEPS DESCRIBED FOR NEW SPAS ABOVE TO GET THE WATER QUALITY BACK. IF THIS FAILS, FOLLOW PROCEDURE ABOVE FOR RETRO FIT SPAS.**

### Clean Filters Regularly

Check and clean the filter cartridge elements regularly using a cartridge cleaning solution (available from most pool stores).

### UltraZone Lamp Replacement

The UV-C Lamp in the UltraZone System will require replacement every 18 months to 2 years. After this period, even if it is still functioning, it will have lost enough brightness to continue to be effective. Contact your spa dealer for a replacement. The UltraZone unit will flash a yellow LED light on its front panel when it is time to change the lamp.

When replacing the lamp, it is also a good idea to remove the Clear Quartz Glass Tube the lamp is housed in and give it a clean with window clear or another non abrasive cleaner. If this tube becomes dirty, it also affects the unit's performance.