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LITHIUM HYPOCHLORITE/SANITISER GUIDE

TO BE USED AS A GUIDE ONLY.

DOSAGE WILL VARY DEPENDING ON SPA USAGE.

ALWAYS ADJUST LITHIUM/SANITISER LEVEL BASED ON TEST STRIP RESULTS

Warm water is perfect for the growth of bacteria, algae and fungi which can lead to infection and disease, so it is important to maintain your spa to maximize your enjoyment and the spa experience. All these can be avoided by proper use of balancing and sanitizing chemicals.

Most water problems in your spa are as a result of one or more of the following.

- Lower than normal levels of Spa Sanitizer
- Incorrect pH, Total alkalinity or Calcium (hardness)
- Poor or inadequate filtration
- Failing to test the water and adjust parameters as required
- Lack of a regular spa maintenance schedule

By following the spa maintenance recommendations outlined in this Lithium guide, you can prevent many problems from occurring.

Always read and follow the safety and dosage instructions on the labels before using any of the spa chemicals.

LITHIUM INITIAL SETUP INSTRUCTIONS:

FILL YOUR SPA ACCORDING TO SPA MANUFACTURERS INSTRUCTIONS.

- Add 75 grams per thousand litres of the Lithium/Spa Sanitizer. **DO NOT HOP IN SPA.**

By adding this large amount of sanitizer, your MPS level on your test strip will read in the high mark. Due to the variance in temperature of the water in the spa, burn off times will vary. We suggest that you test the water before you get in the spa to ensure that the MPS levels is reading **OK** on the test strips.

- Place your yellow Nature 2 stick in the black cap that sits on top of one of your filters. Replace back into the filter. If you have a spa with the Standard Filter, you will need to use the extensions provided in Nature 2 pack. Place through the centre of the filter. Having a Nature 2 Stick in your spa enables you to run a lower level of sanitiser and can help to keep the santiser level stable.
- ***Remember – Your Nature 2 Stick only lasts 4 months, See in store for specials on a 3 pack of Nature 2 Sticks.***
- Once your MPS level **OK** on the test strip, then balance your water PH, Alkalinity levels and calcium. Correct if necessary with pH and Alkalinity enhancer or decrease with pH Decreaser or calcium enhancer.
Recommended levels: pH 7.2-7.6, Total Alkalinity 120-150 and Calcium 80-250 depending manufacturers recommendations.
- Remember to leave your hard cover off for ½ an hour after adding any chemicals. Replace hard cover after this time.

Continue overleaf for Daily, Usage and Weekly maintenance instructions...

LITHIUM MAINTENANCE PROGRAMS

DAILY SCHEDULE:

- On a daily basis add 15 grams per thousand litres of Lithium/Sanitiser to the spa water. Once you have dosed your spa and the chemical has circulated for 20 minutes, test the water with the test strips to make sure the MPS Level is reading at **OK** level. If it is not reading **OK** then add more to increase your dosage and retest again..
Always leave the cover off for at least half an hour after adding chemicals.

USAGE SCHEDULE:

- After each use it is recommended to put a shock dose of Lithium/Sanitiser in the spa water. Add 20gms per thousand litres or per person, whichever is greater. ie. If you have a 2000litres spa add 40gms of Lithium/Sanitiser for one person or if there are 5 people in the spa add 1000gms of Lithium/Sanitiser.

WEEKLY MAINTENANCE:

- Test the water balance on a weekly basis to ensure the correct levels for pH, and Alkalinity and Calcium (hardness). Dose the spa accordingly to the test strips to correct the levels. Correct if necessary with pH and Alkalinity enhancer or decrease with pH Decreaser or calcium enhancer. Recommended levels: pH 7.2-7.6, Total Alkalinity 120-150 and Calcium 80-250 depending on manufacturers recommendations.
- Once a week it is recommended to clean your filters or after 10 person hours of spa usage. ie. If 4 people use the spa for 1 hour that is equivalent of 4 person hours. If people drink alcohol in the spa they significantly increase the amount of perspiration and body fats in the spa. These body fats are trapped in the filter cartridge until it becomes clogged reducing the quality of the water and puts pressure on the pumps. For optimum water clarity filter cartridges should be cleaned afterwards. Filters are recommended to be replaced every 12 months or 9000 hours.
- It is important that first you turn your spa off at the isolation point prior to removing your filters. Spray your filters with Crystal Waters Filter Klens and leave sit for 15 minutes. Hose off the filter thoroughly, simply by hosing each filter up and down and then inverting them and repeating the process.
- Place Filters back in the spa and don't forget to turn your spa on again at the isolation point.

TROUBLE SHOOTING

CLOUDY WATER

Cloudy water could be caused by one or more of the following:

Number One cause can be Build up of body fat in your filters

- Low or no level of Spa Sanitizer (MPS)
- Incorrect pH or Total Alkalinity
- Poor or inadequate filtration
- Failing to test the water and adjust parameters as required
- Lack of a regular spa maintenance schedule
- Suspended particles in the water

TREATMENT:

Ensure that your filters are clean and operating adequately. Test the levels of pH, and adjust if out of recommended levels (7.2 – 7.6) and Alkalinity 120-150.

Shock Dose your spa with a Crystal Waters Boost 20gms per 1000litres.

If your spa does not have the usual 'sparkle', a dose as per directions of water clarifier will help in the filtering out of all impurities that could be causing the water not to be crystal clear. Always read and follow safety and dosage instructions on the label before using any of these products

FILTER CLEANING

Clean your filters weekly or after 10 person hours. Clean filters are required to help keep your water crystal clear. It is recommended to clean your filters with Crystal Waters Filter Klens, leave the filters sit for 15minutes then clean with high pressure hose. **(Not a high pressure cleaner.** Paying special attention to each fold in the cartridge, to remove any debris that has been filtered from your water. Hose the filters vertically up and down, then invert the filter and repeat the process.

For heavy soiled filters It is recommended to clean your filters by soaking them in Filter Clean. Soak for 24hours and then Hose filters thoroughly with clean water after soaking, making sure to get in between each cartridge fold to the core of the filter. This will ensure the removal of all the body oils and fats, cosmetics, lotions and hair etc.

TIP: Why not purchase another set of filters for your spa so while the first set are soaking and cleaning, you can place the other set in and still use your spa.

FOAMING PROBLEMS

Usually associated with a build up of body fats, either in your filters or in the spa pipes. Never use household cleaners to clean your spa. Foaming is usually caused by heavy bather load causing a build of body fats, cosmetics etc.

TREATMENT:

Check you MPS (Sanitiser), pH and alkalinity levels and adjust if necessary. Clean the filters with the procedure mentioned above using Filter Clean. Shock treat the spa with Crystal Waters Boost 50gms per 1000 litres of water and operate filtration pump for 24hours. Add Water Clarifier as per directions for amount of water in your spa. Run spa for 2 hours if you don't have a circulation pump. Sometimes you may have to run for longer. (Spas with Circ. Pumps are done automatically). If foaming continues a useful product to use is Anti Foam. Read safety directions and check amounts before using this product. In extreme cases the spa water may be required to be replaced. Use Crystal Waters Pipe Klenz to clean the spa pipes, run the jets for 2 hours then dump water. This product cleans out any build up of body fats in the pipes.

DUMPING YOUR SPA WATER

Your spa water is recommended to be dumped and replaced every 12months, However, if your spa has had higher bather load than average, or longer periods of operation, then this may be required at an earlier time.

How do I clean the pipes of the spa?

The pipes are connected to each of the jets in your spa. Over time, body fats, cosmetics etc. slowly build up within these pipes. This in turn starts to restrict the flow through the pipes. It is therefore recommended that you use Crystal Waters Pipe Klenz prior to draining, Run the jets for 2hours with Crystal Waters Pipe Klenz in the water. This enables the deposits to be softened, thus clearing the pipes of oils, dirt and other organic waste. After this has been done, turn off your spa at isolation switch and it is then safe to drain the water from your spa.

When using your spa, please be aware that heat and alcohol, combined or separately, can have a dangerous effect.

Please Note: Draining of the spa should occur through the fitting found on the external of the spa cabinet. Filling with water as previously stated through the filters.

Please Note: IT IS NOT SAFE TO MIX CHEMICALS.

Purchasers assume all risks of use and handling when the product is not used in accordance with the directions given. The above statements are based on information believed to be accurate and reliable. It is imperative that your spa water be correctly balanced and sanitized at all times. Any queries concerning use or storage should be addressed to the manufacturer.