

# MAINTAINING BROMINE SPAS

FOR BROMINE SANITISED SPAS OF 1300 - 1600 LITRES



## REGULAR SANITATION ROUTINES

### Every Use

Before and after spa use.

- If the sanitiser level is "0-1", you **MUST** add 45g of Lithium and run for 30 mins before use. If under "3", add 20g of Lithium or 90g of Oxy-Shock and run the spa for 15 minutes before use.
- Turn aerators off after use (leave them on to cool the water).
- After every medium-heavy usage (2 people for 1 hr or 4 for ½ hour) and after every second or third lighter use, add 90g of Oxy Shock and run for 30 minutes (cover open).
- If the water is not clear, see below. Replace cover & lock down.

### From time to time

Or when required.

- Filter Cleaning - Clean filters or filter socks – every 1-4 weeks (depending on usage). Add 300 grams of "Focus Filter Cleaner & Degreaser" filter cleaner per 20 litres of water. Mix in a plastic container until fully dissolved. Hose cartridge or socks to remove solids, then immerse in solution, ensuring all surfaces are fully covered. Soak overnight and remove the following morning. Hose cartridge or socks again to remove dissolved solids. Re-fit to filter and commence normal filter operation.
- Every month, drain and replace 30% of the water to keep it fresh and easier to maintain. Every 2 - 4 months or when the water is "off" or hard to manage, drain & refill the spa completely.
- Remove & clean the jets every month. If they get stuck any damage is not covered by warranty.
- Protect your cabinet with decking oil or spa cabinet oil as soon as your spa is delivered and at least once a year (or sooner if it becomes faded or rough to the touch). Rub in oil and rub off any excess.

### Once a week

- Check the level of Bromine in the water and adjust if necessary. Turn down the dispenser if you're going away or using the spa less. Never put Bromine tablets or the dispenser inside filter socks.
- Clean the filters. For standard filter cartridges, remove & spray with a hose & nozzle. For spa socks, check and clean the filter socks if necessary. Re-position filters (don't overtighten).
- Test & balance the water (see over page). Add 2 caps of Water Polish and run the "clean-up cycle".
- Note: You can't test if you have a high sanitiser level or if you've just added Oxy Shock or Lithium.

### With Problems

Water is cloudy or looks bad

- If the water is extremely cloudy, or looks or smells off, it is best to drain spa and refill with new water.
- If the water surface has white "fluffy" foam (like detergent foam), add 60mls of Anti Foam.
- If the water is not clear, first check the filters. If they are dirty, clean & reposition them. Make sure the p.H. is 7.6 or lower (7.4 best). Then add 60mls of Water Polish & run the "clean-up cycle".
- If the water is still cloudy AND if there are clumps of "oily" bubbles on the surface when the jets are on and aerated, add 90g of Oxy Shock and run the "clean-up cycle" with the cover open.
- If the water is very cloudy or continues to be cloudy after the steps above, change 30% or all of the water and/or add 90g of Lithium and run the "clean-up cycle" with the cover open.

## DRAINING & REFILLING ROUTINES

### 100% Drain & Refill

- Drain & re-fill your spa EVERY 2 - 4 MONTHS and when the water is "off" or hard to manage.
- (Optional) Before draining, add spa pipework cleaner (follow instructions), then flush with fresh water.
- Clean the filters (see above), remove and clean the jets & clean the entire spa surface (with metho).
- Refill your spa (through the skimmer box) and re-position the filters & the Bromine dispenser.
- Test & balance the water as described over the page. Add 2 caps of Water Polish, then add 90g of Lithium (dissolve in water first) & run the "clean-up cycle" with the cover open.
- If you're using tank or bore water, you **MUST** check the level of "hardness" of your water and adjust to achieve a reading of 120ppm.\*
- Be sure to turn the heater off when adding hardness increaser to the water. Council water supplies may also need the level of "hardness" to be increased – check with a local pool shop when re-filling to be sure.

### 30% Refill (Regular refresh)

- Drain 30% of the water, clean the filters (above), refill the spa and re-position the filters.
- Test & balance the water as described over the page. Add 2 caps of Water Polish, then add 90g of Lithium (dissolve both in water first) & run the "clean-up cycle" with the cover open.

# TESTING SPA WATER



## 4 STEP TESTING ROUTINE

### 1. Sanitiser level

Very important - do this test at least every week, or if the water looks or smells unclean.

- Fill a small jar with a sample of spa water. Use a 3:1 test strip to check your bromine level as directed on the test strips.
- Match the colour of the test strip with the "Br" scale to get the sanitiser result.

If the reading is...	You should...
0-1.1 and you want to use spa	Add 45g of Lithium and run 30 minutes before using spa. Increase adjustment on dispenser
1.1-3.4 and you want to use spa	Add 30g of Lithium and run 30 minutes before using spa. Increase adjustment on dispenser
Below 3.4 but not using spa	Open bromine dispenser. Use more Oxy Shock after using spa.
around 3.4	Do nothing - ideal reading.
Temporarily Over 4.5	Remove the dispenser until reading is lower.
Often / Always over 4.5	Turn the dispenser down.

### 2. Total Alkalinity

Do not continue this test if the sanitiser level is over 4.5 on the "Br" scale.

- Fill a small jar with a sample of spa water. Use a 3:1 test strip to check your total alkalinity level as directed on the test strips
- Match the colour of the test strip with the "Total Alkalinity" scale to get the result

If the result is...	You should...
0	add 280g of Alkalinity Increaser.
40	add 220g of Alkalinity Increaser.
80-120	OK.
180-240	Do nothing - allow the alkalinity to drop.

### 3. pH Level

If you adjusted the alkalinity level, wait for 30 mins before doing this test.

- Fill a small jar with a sample of spa water. Use a 3:1 test strip to check your pH level as directed on the test strips.
- Match the colour of the test strip with the "pH" scale to get the result.

If p.H level is...	You should...
6.8	Add 45g of pH & TA Increaser.
7	Add 30g of pH & TA Increaser.
7.2	Add 15g of pH& TA Increaser.
7.4 - 7.6	Do nothing - The pH level is perfect.
7.8	Add 30g of pH Down.
8.4	Add 90g of pH Down.

### 4. Hardness

Low levels of water "hardness" will cause damage to your spa heater. If you are using rain, dam or bore water, it is imperative to have the level of your waters "hardness" tested (at a local pool shop) when filling your spa. To adjust, you'll need to add 1 cap of "Hardness Increaser" for every 10 p.p.m. short of the required 120 p.p.m level. Council water may also need adjusting - be sure to check with a local pool shop when filling & re-filling the spa.

## TESTING TIPS

- Don't enter the spa if the water is unclean or smells "off".
- For the safety of the bathers there MUST be a readable sanitiser level in the water at all times. Test the water if unsure, as well as every week and if it looks unusual.
- Never put your head below water.
- You CAN NOT test the water if you've recently added Oxy Shock or Lithium (Chlorine Granules) or if the sanitiser level is over 4.5.
- Always mix chemicals with water in a plastic container before adding to the surface of the spa with the pump running.
- After adjusting Alkalinity or p.H. always wait 30 mins before re-testing or adjusting.
- No Foam should only be used for clean "detergent like" foaming. Clumps of "oily" surface bubbles require the use of Oxy Shock or Lithium.
- Don't add Anti Foam & Water Polish/Clarifier at the same time.
- Replace test solutions yearly.
- Rinse test tubes before each test.
- Do not take water sample from aerated water or shake the sample.
- If your sanitiser reading is "0" but the water smells of Chlorine and/or you've been adding lots of sanitiser, you may have a false reading. If the test sample is "blue-ish", it's definitely a false reading. Wait until the sanitiser reading is under 4.5. before re-testing.