

CHLORINE - WATER TREATMENT PLAN

(for above ground pools)

FILLING POOL

Fill Pool and establish flow through pump and filtration systems. FILLING POOLS WITH SOFTWATER MAY COMPROMISE THE ABILITY TO BALANCE PH AND ALKALINITY.

PART #1 - Mineral & Scale Control

SEQUA-SOL

Add "**Sequa-Sol**" (per product directions) to water at start-up. Then treat weekly to maintain and control stain and scale from water born minerals.

PART #2 - Hard Water Control

PH/ALKALINITY (Test Strips)

Test with strip or kit and use "**Ph Increaser**" or "**Ph Decreaser**" (per product directions) to adjust the PH level. **Note: The PH level may take a few days to stabilize (check every day & adjust accordingly) use as little "Increaser" or "Decreaser" as possible as to not over-treat water. Adjusting the PH will usually adjust the Alkalinity over time. If it does not, then a specific Alkalinity adjustment chemical may be required. NOTE: Improper pH levels may cause erosion and discoloration of plastics which may VOID your WARRANTY.**

PART #3 - Algae Control

ALGAE

Add "**Algimycin 2000**" or "**Algae Shield**" at start up and then on a weekly basis (per product direction) to maintain algae control of pool water. If Algae develops in the pool it is recommended that you shock the pool (to a level of 10ppm) with chlorine then scrub off algae and vacuum pool to remove.

PART #4 - Sanitizer

CHLORINE SANATIZER

Add 5 Teaspoons of granular **Chlorine** per 1,000 gallons of water, until you reach 2-5ppm level of Free Chlorine (to establish a base). Using a chlorine feeder with "time-released" tablets may be necessary to maintain a 2-3ppm level of sanitizer. Fill the spa tablet feeder with chlorine tablets and adjust the spiral vent appropriately. An adjustment to this vent may be necessary to maintain an appropriate level of chlorine for continual usage. **Tablet feeders may not keep up the base demand of Chlorine and it is common to have to add more granular Chlorine to maintain the (free or available) BASE.**

SHOCK

Add MPS (*Potassium Peroxymonosulphate*) "**Shock Oxidizer**," "**Leisure Time Renew**," or "**Clear View Chlor Free-15**" weekly to the water to remove bacteria and free-up chlorine (1oz per 300 gal.).

PART #5 - Water Clarity/Filter Cleaner

TOC (Total Organic Compounds) CONTROL

Use "**Pool Perfect**," "**SeaKlear Spa**," or "**Bright & Clear**" (per product directions) to break down and/or sequester "TOC's" (Oils, cosmetics, lotions), reduce waterline rings, and help clean filters.

- Use all chemicals according to the manufacturer specifications and directions on the bottle or packaging
- Properly disperse and dissolve all chemicals and products before using any pool
- Clean filters regularly

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Cloudy water	Filter problems	Clean filter cartridge and inspect for integrity issues.
	Microscopic particles or high TDS (>2000)	Rinse off before using the hot tub to remove oils, lotions and hair shampoo/conditioners. Add BRIGHT AND CLEAR to remove particles through filter.
	High Alkalinity (80-120ppm) High pH level	Test pH and Alkalinity and lower if necessary with SPA DOWN.
Skin and/or eye irritation	Low pH (7.2-7.6)	Raise Ph level with SPA UP to eliminate acidic water (itching).
Algae growth	Low sanitizer levels	Shock your spas water with your sanitizer (Renew, Chlorine or Bromine). Brush the spa walls. Run the filter for a 24-hour period to increase distribution of sanitizer and add Spa Algaecide.
Excessive foam	Buildup of body oils or cosmetics.	Rinse off before using the hot tub to remove oils, lotions and hair shampoo/conditioners. Use FOAM DOWN to temporarily break up the contaminants and then to help the filter remove them. If a oily water line is present the spa should be wiped out and the filter cleaned with FILTER CLEANER.. An oil absorbing sponge such as SCUMBUG can help in preventing this.
	Laundry Detergent	Run an extra rinse cycle on the washing machine or re-rinse well by hand.
	Excess organic contaminants	Some organic matter will cause foamy water, FOAM DOWN will temporarily break up the contaminants, then use BRIGHT AND CLEAR to help the filter remove them. It may necessary to drain and refill spa.
	Low or High Calcium Hardness (150-400ppm)	Test water with a TOTAL HARDNESS TEST KIT and if necessary increase. If high, change the water.
Oily water line	Body oils, dirt, soaps	Scum line may be able to be removed with paper towel. Alternating weekly between BRIGHT AND CLEAR and ENZYME along with frequent filter cleanings usually eliminates this problem.
Scaley Waterline	High ph and/or Alkalinity	Lower pH and Alkalinity levels with SPA DOWN or Alkalinity Decreaser specifically to decrease hard water (scale) build-up.
Stains	High Mineral Content	Sequester mineral content with METAL GON and consistent use of STAIN & SCALE CONTROL OR DEFENDER products. One may also use a mineral sanitizer stick.
Unstable pH	Low total alkalinity levels	Test total alkalinity levels with an accurate TEST STRIP OR KIT and if necessary increase with SPA UP.
pH resistant to changing	High total alkalinity levels	Test total alkalinity levels with an accurate TEST STRIP OR KIT and if necessary decrease with SPA DOWN.