

## Routine Care

### Silver and Low Dose Chlorine

| <u>When?</u>               | <u>What?</u>   | <u>How?</u>                                 | <u>Why?</u>   |
|----------------------------|--|---|---|
| <b>A Few Times a Week:</b> |  |   |   |
| <b>(While learning)</b>    | Add dose of Chlorine (Di-Chlor) after your last spa use.               | 1 Teaspoon per 250 Gallons (1/3 Tablespoon) | Chlorine is an excellent, and very effective sanitizer. Adding this dose after you are done using the spa will disinfect the water, and allow most of the chlorine to dissipate before your next use. |
|                            | Use a test strip 20 minutes after dosing to confirm proper sanitizing. | The target chlorine level is 1-2 ppm.       | This confirms you are adding enough chlorine when you are exiting the hot tub to sanitize the water, you will "fine tune" future dosage based on your results.  |

| <b>Weekly:</b> |                     |                   |  |
|----------------|---------------------|-------------------|--|
|                | Test and adjust pH. | Adjust as needed. | Low pH means your water is a mild acid, this shortens the lifespan of metal components. High pH makes your chlorine less effective and leads to scaling in the spa. A slightly low pH is better than high. |

| <b>Monthly:</b> |  |   |  |
|-----------------|--|---|--|
|                 | Remove and rinse cleanable filter out.               | Rinse downward around filter twice, flip over and repeat. | This quick chore enables you to "Deep" clean the filter every 3-4 months instead of monthly as suggested.  |
|                 | Spray and rub in 303 on the sun exposed vinyl cover. | As much as cover will absorb.                             | The primary reason for cover failure has its roots in UV light breaking down the marine grade vinyl, this "sunscreen" prolongs this expensive components life. |

| <b>Seasonally: (Every 3-4 Months)</b> |   |  |   |
|---------------------------------------|---|--|---|
|                                       | Turn off power. Drain spa with built in drain. Wipe out shell, pay close attention to waterline area. Refill spa with fresh water.  | It is ok if 3-5 inches of water remains in the bottom of the spa.    | As water in a spa ages it accumulates dissolved solids, the pH of the water also becomes more unstable. The only remedy is to drain and refill your spa.  |
|                                       | Remove cleanable filter and soak in a bucket with cleaning solution for 6-8 hours. Rinse this filter VERY well before reinstalling. | 16 oz of Filter Cleaner with as little water needed to cover filter. | The mild acid in this filter cleaner will remove minerals that over time will plug the weave of the filter media. The degreaser in this filter cleaner will break down and remove oils, skin, and grime trapped in the weave of a filter. A thoroughly cleaned filter equates to stronger jets. |
|                                       | Replace silver nitrate cartridge located in filter housing.   | Turn page over for complete startup directions.                      | The presence of a silver nitrate canister allows the spa to be sanitized with a lower ppm of chlorine, this canister needs to be replaced after it has been dispensed.  |
| <b>(Not on all models)</b>            | Replace MicroClean I filter if equipped.  | n/a  | This disposable filter will plug up and cause an "FL1" (flow) error message, for safety this will turn off the heater.  |

| <b>Yearly &amp; Beyond:</b> |  |                  |  |
|-----------------------------|--|------------------|--|
| <b>(Not on all models)</b>  | Replace MicroClean Ultra inner core filter.  | n/a              | This disposable filter will plug up and cause an "FLO" (flow) error message, for safety this will turn off the heater.   |
| <b>(Not on all models)</b>  | Replace Ultraviolet bulb, then reset timer.  | n/a              | UV bulbs contain trace amounts of mercury, as the lamp burns the mercury is vaporized. When it has been depleted, the spectrum of UV light changes and is no longer an effective sanitizer.                          |
| <b>(Optional)</b>           | Before draining spa, add a bottle of Spa Purge, follow directions on bottle.             | 1L Bottle.       | This enzyme based cleaner is formulated to soften and "eat" away the scale and "gunk" that builds up on the plumbing of the spa. Think clogged arteries.   |
| <b>(Optional)</b>           | Before draining spa, super chlorinate the water. Do not do this before adding Spa Purge. | At least 10 ppm. | Once a year it is a great idea to superchlorinate the spa to completely disinfect all the plumbing, this will destroy any bacterial or fungal colonies that may be trying to grow in low flow areas of the plumbing. |

# Startup

Silver and Low Dose Chlorine

1

Install your silver based sanitizing cartridge, this will last 4 months, or a water change, before needing replacement.

2

Place hose in filter housing and fill hot tub with water. Fill to above the all the jets, this will allow water to flow freely into the filter compartment.

3

Plug in or turn on breaker to power the hot tub. Turn jets on to purge air from the system, once purged, turn jets off.

4

Verify there are no flow related errors and the circulation pump system has initialized properly. Now adjust set temperature.

5

Add a shock (double) dose of chlorine. Test water, add an initial dose of pH adjustment if necessary.

6

120v Hot tub will get hot in ~ 20 - 36 hours.  
240v Hot tub will get hot in ~ 6 - 9 hours.



Example Silver Cartridges: