



Your new spa will give you years of enjoyable pleasure. It will require a certain amount of maintenance and care to keep it clean. This guide will help you get started and take care of your spa. Keep it in a place that is easy to find for future reference. After you have completed the six steps below your spa will be ready to hop-in and enjoy.

Please take the time to test the water that you are using to fill your new spa with the test strips provided in the start-up kit. Make a note of these readings in the space provided in the back of your owners' manual. This will allow you know where your starting point is and will make the start-up go much smoother for you.

## SAFETY TIPS

- Never heat your spa above 104°F.
- Do not drink alcohol while using your spa.
- Always shower before entering the spa.
- Limit your time in the spa to 15 minutes.
- Maintain a proper sanitizing level.
- Do not mix chemicals before adding to the water. Add each chemical separately.
- Always add chemicals to water, not water to chemicals.
- Always store chemicals according to the manufacturer's instructions and keep them out of the reach of children.

## INITIAL SPA START UP

**1 STEP 1:** During the initial filling of the spa, add 16 oz. of Metal Protect, 2 oz. of Scale Defense, 2 oz. of Oil Gone and 4 oz. of Phos Gone. Allow water to circulate for at least 30 minutes before adding any other chemicals.

**2 STEP 2:** Test water for pH and total Alkalinity using the test strips provided in the start-up kit. The pH should be 7.2 - 7.6 and the total Alkalinity 80 - 120 PPM. Hardness levels should be maintained between 200 and 400 PPM (part per million).

**3 STEP 3:** Adjust pH and total Alkalinity utilizing the directions on the back of the chemical bottles (pH up or pH / Alkalinity down) and let circulate for two hours.

**4 STEP 4:** It may be necessary to retest and add additional chemicals to get to the proper levels as stated in Step 2. Once the total Alkalinity is in the 100 - 120 range the pH will stabilize and stop fluctuating.

**5 STEP 5:** It is very important to completely balance pH and total Alkalinity before balancing total hardness. Add a maximum of 10 oz. of Hardness Up at a time to increase, let circulate for 1-2 hours and then retest. May take 2-3 doses before correct hardness levels are reached.

**6 STEP 6:** Add 2 oz. of Chlorinating Granules\* (sodium Dichlor-s-triazine-treone) to reach a Free Chlorine level of 8 ppm on initial start up to begin sanitizing the spa water. Do not enter the spa until the Total Chlorine levels drop below 5.0 ppm. If Free Chlorine reads below Total Chlorine, treat with Oxidizer Shock. It is important not to add the Chlorinating Granules until the pH and alkalinity have been adjusted to their proper levels.

*Chlorinating Granules* - Chlorine sanitizing agent

*Oxidizer Shock* - Oxidizing agent used to free up chlorine

*pH UP* - Raises pH and total Alkalinity

*pH / Alkalinity Down* - Lowers pH and total Alkalinity

*Foam Gone* - Temporarily removes foam

*Spa Brite* - Helps combine small particles for clear water

*Oil Gone* - Enzyme that helps break down oils

*Phos Gone* - Removes phosphates

*Metal Protect* - Sequesters metals suspended in the fill water

*Filter Cleaner* - Removes material from the filter media

*Scale Defense* - Keeps minerals in suspension

\*Always refer to the chemical manufactures dosage recommendations listed on the container.

## WEEKLY/MONTHLY MAINTENANCE SCHEDULE

<b>BEFORE EACH USE</b>	Check spa water with a test strip for sanitation levels and adjust accordingly to the proper Free Chlorine levels of 2.0 - 4.0 ppm. Bathers should not enter if water is cloudy, if Total Chlorine levels are above 5ppm or if no Chlorine levels are present.
<b>AFTER EACH USE</b>	Add 1/2 ounce of (Chlorinating Granules). (Circulate spa for at least 30 minutes anytime after adding any chemicals to water.)
<b>ONCE A WEEK</b>	Add 1 ounce of a non-chlorine shock (Oxidizer Shock) and 1/2 ounce of (Chlorinating Granules). Add 2 ounces of Scale Defense. Leave cover open for 1/2 hour.
<b>ONCE A WEEK</b>	Test water using chemical test strips. Adjust, alkalinity, pH, and sanitizer accordingly. Rinse Filters.
<b>AS NEEDED</b>	If water looks hazy, treat with Chlorinating Granules to maintain Free Chlorine levels. Treat with non-chlorine shock (Oxidizer Shock) if Free Chlorine is less than Total Chlorine.
<b>ONCE A MONTH</b>	Soak your filter elements overnight in a container with (Filter Cleaner) and then rinse with clean water before re-inserting. The ECO PUR™ mineral element should never be cleaned in a filter cleaner. Just rinse with water.
<b>ONCE A MONTH</b>	Move all diverter valves, waterfall valves, and air controls back and forth to keep valves from freezing up.
<b>EVERY 180 DAYS</b>	Drain and refill your spa, replace with a new ECO PUR™ element, repeat start up procedure. The regular filter should be replaced at least once every year.

\* All the above quantities are for up to 500 gallons of water. Check the owner's manual for the correct gallons in your spa. Always refer to the chemical manufactures dosage recommendations listed on the container.

## SPA WATER MAINTENANCE TROUBLE-SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSES	HOW TO FIX IT
<b>CHLORINE ODOR</b>	Excessive Chlorine	Shock water with Oxidizer Shock shock treatment
	Low pH	Adjust pH if necessary
<b>WATER ODOR</b>	Low levels of sanitizer	Adjust sanitizer level with Chlorinating Granules
	pH out of range	Adjust pH level if necessary
	Bacteria or algae growth	Adjust sanitizer with Chlorinating Granules
<b>CLOUDY WATER</b>	Dirty filters or inadequate filtration	Clean filters with Filter Cleaner and adjust filtration
	Water chemistry not balanced	Adjust chemistry levels
	Old water	Change spa water
<b>EYE / SKIN IRRITATION</b>	Unsanitary water	Adjust according to spa test strip results
	Free chlorine level above 5 PPM	Allow level to drop below 5 PPM
	Poor sanitizer / pH levels	Adjust according to spa test strip results
<b>FOAMING</b>	High levels of body, oils lotions, soap, etc.	Add small amount of Foam Gone and check water chemistry
<b>SCUM DEPOSITS AT WATERLINE</b>	Body oils and dirt	Use Multi Purpose cleaner to clean spa surface and add Oil Gone to spa water
<b>CHALKY, WHITE SCALE DEPOSITS</b>	Minerals in the water	Add Scale Defense

### \*COVER

Clean underside of cover with clean water regularly.

Make sure to keep the vinyl spa cover clean and treat with Cover Treat every 2-3 months.

Always leave cover open for at least 15 minutes after adding Chlorine to the spa water.

\*These are typical cover maintenance recommendations. Refer to cover manufacturer's maintenance recommendations for full details.

### \*RECOMMENDED LEVELS OF CHEMICAL

Free Chlorine 2.0 - 4.0 PPM

pH 7.2 - 7.6

Total Alkalinity 80 - 120 PPM

Total Hardness 200 - 400 PPM

*Do not enter the spa when Total Chlorine levels are above 5ppm.*

\*Recommended levels are based on industry standards for permanently installed and portable residential spas and swim spas.