



# Hot Tub School

Presented by Galaxy Home Recreation

Information for Swim Spa and Hot Tub Owners



## 3 Components of Clean Water

Circulation



Filtration



Sanitization



## Why is this important?

<b>Circulation</b>	Circulation is important because still water will become stagnant. Every hot tub and swim spa comes from the factory with a pre-programmed filtration cycle. The more the water circulates and goes through the filter the cleaner it will be. Also, many models have a UV bulb sanitizing system that will help to neutralize waterborne pathogens. This kind of system works by having the water flow past the UV light.
<b>Filtration</b>	Filtration is important because filters are made to catch very small particles to help clean your water. It is important to clean your filters weekly and using a filter cleaner spray that breaks down oils and grease will keep your filters cleaner and help them to last longer.
<b>Sanitization</b>	Sanitization is important because bacteria and viruses can grow in the water and without a sanitizer to kill and oxidize them your water could make you sick. We add the Nature's Pure Mineral Purifier to your spa care regimen because the minerals in it help to neutralize waterborne pathogens and prevent algae growth. However, keep in mind that even with minerals and UV you still need to maintain a chlorine reading of about .5 to 1 ppm minimum.

## Basic Items You Need

Test Strips

Balancers: Spa Up, Spa Down, Calcium Booster

Nature's Pure Mineral Purifier (2 for swim spas)

Spa 56 Chlorinating Granules

Renew Non-Chlorine Shock Oxidizer



## Helpful Items You Need



## Balancing your water

### Why is this important?

<b>Sanitizer Efficiency</b>	<p>When water is not balanced, meaning the pH, Alkalinity, or Calcium Hardness is not in the correct ranges, the sanitizers and minerals won't be 100% effective. This means wasted time and money.</p>
<b>Water Quality</b>	<p>Water that is too low in pH and Alkalinity will be acidic. Water that is too high in pH and Alkalinity will be too basic. Either way the water will be uncomfortable for the people in your spa. Balanced water will be easier on your skin, hair, and eyes.</p>
<b>Preservation of your spa</b>	<p>Just like the people in your spa can be affected by water quality, so can your hot tub itself. When water is too acidic or basic it can corrode or erode the shell and components. Checking your spa weekly and balancing as needed will preserve your investment.</p>

### How to Balance your Water:

1. Dip a test strip into still water. Go at least 6 inches into the water. Immediately compare the test strip to the bottle to see if the levels are in range.
2. Always Adjust Alkalinity First!
3. If the pH or Alkalinity are too low add Spa Up.
4. If the pH or Alkalinity are too high add Spa Down.
5. Only use 1 to 2 Tbsp at a time of Spa Up or Spa Down. Wait 1 hour then retest.
6. If the Calcium Hardness is too low add Calcium Booster (this level usually doesn't change, so once you set it don't worry about adjusting it until you drain and refill your hot tub).

# Troubleshooting

## Foaming

1	Foaming is sometimes caused by low Calcium Hardness.
2	If your Calcium level is good then the foaming is probably caused by lotions, makeup, hair products, or detergents.
3	Make sure you have a hot tub bathing suit that does not go through the washing machine often. You can soak a bathing suit in baking soda and water to help rinse out the detergents before using it in the hot tub.
4	For a quick fix you can use Foam Down. I recommend putting the foam down in a spray bottle and just spraying it a couple times on the foam. Do not use more than a few sprays or drops at a time.

## Smelly Water

1	Test and Balance your water if needed.
2	If your Chlorine reading is zero add some Spa 56.
3	If your Chlorine reading is fine then add Renew (4 to 5 Tbsp).

## Chalky Powdery Build Up

1	Test and Balance your water. High pH or Alkalinity can cause scale formation.
2	Start using a product like Defender or Hot Tub Serum to get rid of and prevent Scale Formation.
3	If neither steps 1 or 2 work then it could be a by product of too much sanitizer. Make sure your Chlorine level does not regularly go higher than 3 ppm.

## Green Tinted Water

1	Test and Balance your water, if that doesn't help go on to step 2.
2	If your Chlorine reading is zero add some Spa 56. If you have a Chlorine reading add Renew (4 to 5 Tbsp).
3	If neither steps 1 or 2 work then you may need to bring your water into one of our locations for more thorough testing.

## Cloudy Water

1	Test and Balance your water if needed.
2	If your Chlorine reading is zero add some Spa 56.
3	If your Chlorine reading is fine then add Renew (4 to 5 Tbsp).
4	If none of those steps work then use a clarifier like Bright and Clear. Clarifiers help to coagulate (stick together) the very small particles in the water so the filter can catch them. Make sure to clean your filter thoroughly with filter cleaner afterwards.

Use Renew after every time you are in you Hot Tub or Swim Spa

Balance & Sanitize Water Weekly

Clean Filters Weekly

Drain and Refill every 4 months for Hot Tubs

Enjoy a clean and Easy to maintain Spa!

## 4 Steps for an Easy to Maintain Spa

1	Renew is a Non-Chlorine Shock Oxidizer. Use 3 Tbsp each time (more if you have more than 2 people in the Hot tub or if you have a large swim spa). This product helps by oxidizing the things that are in your water after you've been in it. Remove cover, turn on jets, broadcast into water, wait 15 minutes to close cover.
2	Balancing is very important! Unbalanced water can cause issues with the effectiveness of sanitizers and minerals. Also, if your water is out of balance it can cause irritation to you and your hot tub or swim spa.
3	Clean Filters can clean your water better. If you stay on top of cleaning your filter, then you will have cleaner water!
4	Draining and refilling your spa is essential. Keep in mind that spas have a fraction of the water you would have in a pool. For instance, if 4 people were in a 400 gallon hot tub it would be the equivalent of 120 people in a 24' round pool! And remember to always replace your Nature's Pure Mineral Purifier when you drain and refill your hot tub or every 4 months.

## How to Drain and Refill your Hot Tub

Turn spa off at the breaker

Drain using a sump pump or with the built in drain

Refill through the filter compartment

Put Filters back in place

Turn your spa back on

