# FRESHWATER®



# Spa Water Maintenance & Troubleshooting Guide

#### START-UP AND REFILL PROCEDURES

- Fill the spa with water through the filter compartment using the *CleanScreen®* pre-filter with the valve open halfway (45°) to remove unwanted contaminants and metals
- Install a FreshWaterAg+® silver ion purifier into the filter standpipe with the gray filter cap
- Use FreshWater 5-way Test Strips to test for Total Alkalinity, pH, and sanitizer levels in spa water
- Balance Total Alkalinity (TA) to 40 120 ppm
   If TA is too low, add FreshWater pH/Alkalinity Up
   If TA is too high, add FreshWater pH/Alkalinity Down
- Balance Calcium Hardness (CH) to 50 150 ppm
   If CH is too low (soft water), add a calcium hardness increaser
   If CH is too high (hard water), use Vanishing Act® Calcium Remover to reduce hardness.
   (FreshWater Stain and Scale Defense can also be added)
- Balance the pH to the recommended level between 7.2 7.6
   If pH is too low, add FreshWater pH/Alkalinity Up
   If pH is too high, add FreshWater pH/Alkalinity Down

### **PRIOR TO EACH USE**

- Use FreshWater 5-way Test Strips to test for Total Alkalinity, pH, hardness and sanitizer levels in spa water and correct as needed
- Add one-half (1/2) teaspoon of FreshWater Concentrated Chlorinating Granules per 250 gallons or,
- Add one (1) tablespoon of FreshWater Chlorine Free Oxidizer (monopersulfate or MPS) per 250 gallons

#### **ONCE A WEEK**

- Add one and one half (1-1/2) teaspoons of FreshWater Concentrated Chlorinating Granules per 250 gallons or,
- Add three (3) tablespoons of FreshWater Chlorine Free Oxidizer (monopersulfate or MPS) per 250 gallons

#### **ONCE A MONTH**

· Clean your filters with FreshWater Filter Cleaner

## **EVERY FOUR MONTHS**

- Drain and refill your spa
- Clean your filters with FreshWater Filter Cleaner
- Complete the start-up and refill procedures listed above
- Replace the FreshWaterAg+ silver ion purifier

## AS NEEDED, IF WATER IS HAZY, CLOUDY OF HAS AN ODOR

 Add one and one half (1-1/2) teaspoons of FreshWater Concentrated Chlorinating Granules per 250 gallons.

#### **IMPORTANT NOTES**

- All chemicals must be added directly into the filter compartment with the jet pump on high speed for at least 10 minutes.
- Don't use bromine, sodium bromine or biguanides with the FreshWater<sub>Ag</sub>, silver ion cartridge. These are active
  sanitizers and will chemically react with the silver ions to reduce their beneficial sanitizing effect.
- Don't use a water clarifier. Clarifiers will cause the spa water to become cloudy.

Contact your authorized Hot Spring® spa dealer to develop a regular water maintenance program using FreshWater watercare products to achieve, and maintain, perfect water in your spa.

# FreshWater® Spa Water Maintenance Troubleshooting Guide

Should you experience any problem whatsoever with your water maintenance program do not hesitate to contact your authorized Hot Spring® Spa Dealer. Here are some tips to help you to diagnose and rectify some more common sources of trouble yourself, if you choose to do so.

PROBLEM	PROBABLE CAUSE	SOLUTION
Cloudy Water	<ul> <li>Dirty Filters</li> <li>Excessive oils/organic matter</li> <li>Improper Sanitation</li> <li>Suspended particles/organic matter</li> <li>Overused or old water</li> </ul>	<ul> <li>Clean filters with FreshWater Instant Filter Cleaner or FreshWater Filter Cleaner</li> <li>Shock spa with sanitizer</li> <li>Add sanitizer</li> <li>Run jet pump(s)</li> <li>Adjust pH and/or Alkalinity with FreshWater pH/Alkalinity Up or FreshWater pH/Alkalinity Down</li> <li>Drain, clean and refill the spa</li> </ul>
Water Odor	Excessive organics in water     Improper sanitization     Low pH	<ul> <li>Shock spa with FreshWater Concentrated Chlorinating Granules</li> <li>Add FreshWater Concentrated Chlorinating Granules</li> <li>Adjust pH with FreshWater pH/Alkalinity Up to recommended range</li> </ul>
Chlorine Odor	Chloramine level too high     Low pH	<ul> <li>Shock spa with FreshWater Concentrated Chlorinating Granules</li> <li>Adjust pH with FreshWater pH/Alkalinity Up to recommended range</li> </ul>
Musty Odor	Bacteria or algae growth	Shock spa with FreshWater Concentrated Chlorinating Granules – if problem is visible or persistent, drain, clean, and refill the spa
Organic buildup/ scum ring around spa	Buildup of oils and dirt	Wipe off scum with clean rag – if severe, drain the spa, use FreshWater Spa Shine after cleaning to protect the spa shell, and refill the spa
Algae Growth	Low sanitizer level     High pH	<ul> <li>Shock spa with FreshWater Concentrated Chlorinating Granules, and maintain sanitizer level</li> <li>Adjust pH with FreshWater pH/Alkalinity Down to recommended range</li> </ul>
Eye Irritation	Low pH     Low sanitizer level (high chloramines)	<ul> <li>Adjust pH with FreshWater pH/Alkalinity Up</li> <li>Shock spa with FreshWater Concentrated Chlorinating Granules, and maintain sanitizer level</li> </ul>
Skin Irritation	Unsanitary water     Free available chlorine level above 5 ppm	<ul> <li>Shock spa with FreshWater Concentrated Chlorinating Granules and maintain sanitizer level</li> <li>Allow free available chlorine level to drop below 5 ppm before spa use (add hydrogen peroxide)</li> </ul>
Stains	Total Alkalinity and/or pH too low High iron or copper in source water	<ul> <li>Adjust total Alkalinity and pH with FreshWater pH/ Alkalinity Up.</li> <li>Fill with Clean Screen prefilter and use Vanishing Act</li> <li>Use FreshWater Stain &amp; Scale to inhibit metals</li> </ul>
Scale	High calcium content in water     Total alkalinity and/or pH too high	<ul> <li>Use Vanishing Act</li> <li>Add FreshWater Stain &amp; Scale</li> <li>Balance the water using FreshWater pH/Alkalinity Up or FreshWater pH Alkalinity Down</li> <li>If scale requires removal, drain the spa, scrub off the scale, clean spa shell with FreshWater Spa Shine, and refill the spa</li> </ul>