

PROBLEM SOLVER

POSSIBLE CAUSE SOLUTION PREVENTATIVE MAINTENANCE

CLOUDY, DULL WATER

Dirty filter	Clean filter with Filter Fresh or Minute Rinse .	Spa Clarifier used weekly (1 oz./250 gals.) will help the filter remove small particles that cloud water. Clean filter as needed.
pH balance and total alkalinity are incorrect	Test pH and alkalinity. Adjust levels using Spa Increase , Spa Decrease or Alkalinity Up . Lock in pH level between 7.2 and 7.8 range with pH Magic until spa is refilled.	When spa is refilled, add pH Magic (3 lbs./500 gals.) to lock in correct pH level.
Excessive organic contaminants	Shock oxidize with Activate to destroy contaminants. Treat with Natural Clear to break down oily water.	Add a dosage of Activate (2 oz./250 gals.) to shock oxidize and regenerate the bromine sanitizer. Add Natural Clear (1 oz./500 gals.) weekly to prevent oily build-up.
Dissolved chemical solids in water	Use Spa Clarifier to help filter remove small particles.	Once a week or whenever the spa water appears cloudy, add Spa Clarifier (1 oz./250 gals.).
Calcium too high (hard water)	Use Protect Plus regularly. Replace some of the water.	Add Protect Plus (1 oz./250 gals.) weekly to inactivate dissolved minerals in the water.

CLOUDY, GREEN WATER

Low alkalinity level	Add Alkalinity Up .	Test often and maintain total alkalinity level of 80 – 120 ppm.
Low sanitizer level	Test and adjust sanitizer level, shock oxidize with Activate .	Shock oxidize with Activate (2 oz./250 gals.). Maintain sanitizer level of 3 – 5 ppm.

BROWN WATER

High iron or manganese content	Use Protect Plus .	Use Protect Plus (1 oz./250 gals.) to suspend and inactivate minerals that cause water discoloration.
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CLEAR, GREEN WATER

High copper or iron content	Use Protect Plus .	Use Protect Plus (1 oz./250 gals.) to suspend and inactivate minerals that cause water discoloration.
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CHALKY, WHITE SCALE DEPOSITS

Mineral deposits in water	Use Protect Plus . Check water balance and adjust as needed.	Use Protect Plus (1 oz./250 gals.) weekly to prevent calcium scale formation.
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DTI-GLB-SCARD04/08

POSSIBLE CAUSE SOLUTION PREVENTATIVE MAINTENANCE

SKIN AND EYE IRRITATION

Excessive organic contaminants	Shock oxidize with Activate .	Shock oxidize with Activate (2 oz./250 gals.) weekly.
pH too low or too high	Test pH and alkalinity. Adjust levels using Spa Increase or Spa Decrease .	Use pH Magic (3 lbs./250 gals.) to lock in correct pH levels.

ODOR

Excessive organic contaminants	Shock oxidize with Activate . Use Natural Clear to prevent oily buildup.	Shock oxidize with Activate (2 oz./250 gals.) at least once a week to destroy organic contaminants.
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FOAMING

High concentration of chemicals, body oils, cosmetics and other contaminants due to heavy bather load	Use Foam Out . Shock oxidize with Activate .	Shock oxidize with Activate (2 oz./250 gals.) at least once a week to destroy organic contaminants. Drain and refill spa at least every 3 months.
Calcium hardness too low	Adjust calcium hardness to raise level.	Test and adjust to maintain recommended water balance levels.

PITTING OF METAL FIXTURES OR PLASTER SPA SURFACES

pH and/or total alkalinity too low	Adjust total alkalinity and pH balance of water with Spa Increase and Alkalinity Up .	Test and adjust as necessary to maintain pH level of 7.2 – 7.8 and total alkalinity of 80 – 120 ppm. When spa is refilled with fresh water, add pH Magic (3 lbs./500 gals.) to lock in the correct pH level.
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SCUM DEPOSITS ON WATERLINE

Body oils and dirt	Use Natural Clear regularly to reduce scum and odor-causing oils, lotions and organic materials in the water.	Add Natural Clear (1 oz./500 gals.) once a week to remove scum lines and protect filter from oily buildup and clogs.
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RENDEZVOUS
The Complete Spa Care System

Spa Care Guide

GLB

For more information, visit GLBPoolSpa.com

Welcome to GLB's Rendezvous Spa Care

This easy-to-use reference card will guide you through the setup and maintenance of your spa.

To get started, you will need to know the size of your spa.

My spa is _____ gallons.

(Ask your dealer or refer to your spa's manual for this measurement.)

As you care for your spa, please keep in mind that a spa is not merely a small swimming pool. Due to the higher water temperature and smaller amount of water in a spa, four people in a spa is equivalent to 300 individuals in a backyard swimming pool. For this reason, it is very important to maintain your spa to ensure it is clean and properly sanitized.

A key part of this maintenance is keeping your water in balance. Keeping water chemistry balanced will prevent the water from becoming corrosive or forming scale deposits, both of which can damage spa equipment.

Your spa water should be maintained within the following ranges:

pH: 7.2 – 7.8

Total Alkalinity: 80 – 120 ppm

Sanitizer Level: 3 – 5 ppm

When caring for your spa, keep these precautions in mind:

- Always read label directions prior to using a product and use only as directed.
- Never add chemicals to the water when people are in the spa.
- Never add chemicals through the skimmer system. Carefully distribute the chemical by pouring it in the center of the spa with the circulation system running.
- Never mix one chemical with another chemical prior to adding it to the water.
- Allow several minutes to pass before adding another chemical to spa water.
- Store chemicals in a cool and dry location and out of direct sunlight.

SPA START-UP

Fill the Spa

1. First, ask a professional spa retailer to test the water you will be using to fill your spa. Testing the water for pH, total alkalinity and calcium hardness will give you the first indication of any water balance adjustments that may be needed.
2. Check that your filter is clean. If not, use **Filter Fresh** according to the label directions. Soak filter overnight if necessary.
3. Begin filling the spa. As the spa is being filled, add 2 ounces of **Protect Plus** per 250 gallons of water. This sequestering agent will prevent minerals in the water from staining spa surfaces and it also contains a clarifying agent to create sparkling spa water.

Balance the Water

1. Test the pH and total alkalinity levels of the spa water with **GLB 4-Way Test Strips**. Add **Spa Increase** or **Spa Decrease** to adjust the pH level into the ideal range of 7.2 – 7.8. Once the pH level is in the ideal range, adjust the total alkalinity level into the range of 80 – 120 ppm (parts per million) with **Alkalinity Up**.
2. When both the pH and alkalinity are in their ideal ranges, use **pH Magic** to lock in the pH and alkalinity levels until the next time you refill or add water to your spa.

Add Sanitizer

1. Begin disinfecting the water by adding **Rendezvous Enhance/Activate**, **Brominating Disinfectant Tablets** or **Chlorinating Concentrate Granular**.
 - If you are using the **Enhance/Activate** system, add **Enhance** (4 ounces per 250 gallons) to the spa water. Next, add **Activate** (4 ounces per 250 gallons). The addition of **Activate** literally “activates” the bromide in the water into active bromine sanitizer.
 - NOTE:** Test the bromine residual after **Activate** has been added and allowed to circulate for at least 15 minutes. You will not obtain the proper sanitizer level reading unless you follow this important step.
 - If you are using bromine, add **Broma-Start** (1 ounce per 250 gallons). Next add **Brominating Tablets** following the directions printed on the floater label.
 - If you are using chlorine, add **Chlorinating Concentrate Granular** (1-1/4 teaspoons per 250 gallons).
2. After adding a sanitizer, circulate the spa water for at least 15 minutes and then test your sanitizer level with **GLB 4-Way Test Strips**. The bromine or chlorine level should read between 3 – 5 ppm.

EASY MAINTENANCE

Enhance/Activate

Bromine

Chlorine

Every Day of the 3-day program

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| <ul style="list-style-type: none"> • Test pH, total alkalinity and sanitizer levels with 4-Way Test Strips and adjust levels as necessary. • After each spa use, add Activate (2 oz./250 gals.). • Test sanitizer level after allowing Activate to circulate for 15 minutes. | <ul style="list-style-type: none"> • Test pH, total alkalinity and sanitizer levels with 4-Way Test Strips and adjust sanitizer levels as necessary. • Replenish Brominating Tablets in bromine floater as needed. | <ul style="list-style-type: none"> • Test pH, total alkalinity and sanitizer levels with 4-Way Test Strips and adjust sanitizer levels as necessary. • Add a dose of Chlorinating Granular (1-1/4 teaspoons/250 gals.). |
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Monday

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| <ul style="list-style-type: none"> • Add Protect Plus (1 oz./250 gals.) to prevent stains and scale. • Add Spa Clarifier (1 oz./250 gals.) to clear and prevent cloudy water. | <ul style="list-style-type: none"> • Add Protect Plus (1 oz./250 gals.) to prevent stains and scale. • Add Spa Clarifier (1 oz./250 gals.) to clear and prevent cloudy water. | <ul style="list-style-type: none"> • Add Protect Plus (1 oz./250 gals.) to prevent stains and scale. • Add Spa Clarifier (1 oz./250 gals.) to clear and prevent cloudy water. |
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Wednesday

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| <ul style="list-style-type: none"> • Add Enhance (1 oz./250 gals.) to maintain bromide reserve. | <ul style="list-style-type: none"> • Add Activate (2 oz./250 gals.) to shock oxidize spa water. | <ul style="list-style-type: none"> • Add Activate (2 oz./250 gals.) to shock oxidize spa water. |
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Friday

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| <ul style="list-style-type: none"> • Add Natural Clear (1/2 oz./250 gals.) to break down oils and lotions and to prevent scum lines. | <ul style="list-style-type: none"> • Add Natural Clear (1/2 oz./250 gals.) to break down oils and lotions and to prevent scum lines. | <ul style="list-style-type: none"> • Add Natural Clear (1/2 oz./250 gals.) to break down oils and lotions and to prevent scum lines. |
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Occasionally

In a spa, organic contaminants such as body oil, lotions and perspiration build up quickly. It is necessary to shock oxidize in order to clear this residue. To achieve the best water quality possible, treat with **Activate**, a non-chlorine shock oxidizer at least once a week and after each spa use.

If you use your spa more than three times per week, **Activate** should be added more frequently than the one time per week suggested in the **Easy Maintenance Program** above.

NOTE: This program is designed for an average residential spa with average usage. It is not intended for commercial or public spas. If your spa is used more than two hours a day three times per week by more than two people, you should test your spa water and make chemical additions more often than suggested.



Additional Solutions

- Use small amounts of **Foam Out** to reduce foaming when it occurs.
- Use **Spa Cleaner** to remove oil, grime and scale deposits from spa surfaces with the natural power of citrus.
- Clean the filter periodically with **Filter Fresh** to improve the effectiveness of your spa filter.
- For faster or “in-between” cleanings, use spray-on **Minute Rinse**.
- Refill the spa with fresh water at least every three months.
- Before refilling the spa, use **Spa Lustre** to protect the spa's finish.

