

Brilliance[®]

for spas



INCLUDES MERMAID SANITIZER DISPENSER INSTRUCTIONS

SPA CARE GUIDE

BROMINE SPA CARE SYSTEM



Clearly the brighter solution.

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THE BRILLIANCE OF SIMPLICITY

There's nothing like finding the time to relax in your spa and get away from the rest of the world. And now, you can use that renewed energy to take on the world, instead of your spa.

Introducing **Brilliance for spas** products — the bromine spa care system. Unlike other bromine-based spa care systems, the **Brilliance for spas** system is completely chlorine-free, so there's less odor and less irritation to your eyes and skin.

GENTLE ON YOU AND YOUR SPA

Clear water and no hassle in just three simple steps.

Brilliance for spas system lets you care for your spa easily so you can spend more time relaxing in it.

Unlike other bromine and chlorine products that substantially affect pH, **Brilliance for spas** products won't upset the delicate balance of your spa's water chemistry. Adapting your spa to chlorine-free **Brilliance for spas** system takes only minutes.

Discover the **Brilliance for spas** system today and find out just how smart spa care can be.

SYSTEMS

The **Brilliance for spas** system is simple to use. This step-by-step Care Guide has all the information you will need, from start-up to maintenance. Generally, caring for your spa with **Brilliance for spas** system is a simple 3-step, 3-product system:

1. Add Brilliance Sanitizer.
2. Add Brilliance Oxidizer.
3. Add Brilliance Scale Control with Soy Protein.
Test weekly and top up if necessary.

NOW WITH AQUA ENHANCERS



And now the benefits of **Brilliance for spas** products are even more appealing with the addition of Aqua Enhancers® — unique additives that condition spa water to promote a truly skin-soothing spa experience.

JUST ONE CALL

We hope you'll find this guide as easy to use as the **Brilliance for spas** products themselves. If you do need additional help maintaining your spa, however, please contact your Authorized Brilliance for spas Dealer. They are experienced professionals who are trained to help you get the most out of your spa.

A BALANCED COMPOSITION

No matter which sanitizing system you choose, keeping the water balanced is essential to your enjoyment of the spa. Water is balanced when pH, total alkalinity and hardness are all within the proper range. Problems arise when any of these factors are too high or low. Unbalanced water can become corrosive or cause the formation of scale deposits. **Corrosive water** also attacks the integrity of metal components; pitting, etching and staining them. **Scale formation** causes decreased heater efficiency, cloudy water, surface staining or short filter cycling. Any of these conditions can cause problems for the spa, and irritations, especially of the eyes and skin.

pH

Of all the factors covered in this section, pH has the greatest effect on water balance. The pH of water is a measure of how acidic or basic it is. The pH scale runs from 0 to 14, with 7.0 considered pH-neutral. Anything below is acidic; above is basic. The ideal pH for **Brilliance® for spas** system is 7.2–7.8. Using **Brilliance Test Strips**, test your spa's pH regularly. It's simple to adjust. When the pH falls below 7.2, add **Brilliance pH Increaser**. When the pH rises above 7.8, use **Brilliance pH Decreaser**. Always follow product label directions.

Raising pH with Brilliance pH Increaser

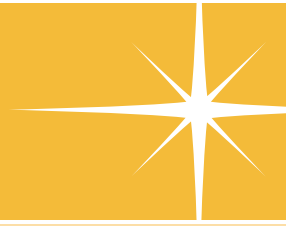
To raise pH from	Spa Volume (gallons)				
	100	200	300	400	500
7.0-7.2	1/16	1/8	3/16	1/4	5/16
6.8-7.0	1/8	1/4	3/8	1/2	5/8
6.6-6.8	1/4	1/2	3/4	1	1 1/4
below 6.6	1/2	1	1 1/2	2	2 1/2

All measurements are in dry ounces.

Lowering pH with Brilliance pH Decreaser

To lower pH from	Spa Volume (gallons)				
	100	200	300	400	500
7.8-8.0	1/8	1/4	3/8	1/2	5/8
8.0–8.2	1/4	1/2	3/4	1	1 1/4
8.2-8.4	1/2	1	1 1/2	2	2 1/2
above 8.4	1	2	3	4	5

All measurements are in dry ounces.



TOTAL ALKALINITY

Total alkalinity is the amount of “buffer” present in water. These buffers prevent drastic changes in pH, called “pH bounce.” The proper total alkalinity range for spa water is 80–120 ppm (parts per million).

Raising Total Alkalinity (TA) with Brilliance® Total Alkalinity Increaser

Desired TA increase in ppm	Spa Volume (gallons)				
	150	200	300	400	500
20	3/4	1	1 1/2	2	2 1/2
40	1 1/2	2	3	4	5
60	2 1/4	3	4 1/2	6	7 1/2
80	3	4	6	8	10
100	3 3/4	5	7 1/2	10	12 1/2
120	4 1/2	6	9	12	15

All measurements are in dry ounces.

Lowering Total Alkalinity (TA) with Brilliance pH Decreaser

Desired TA decrease in ppm	Spa Volume (gallons)				
	150	200	300	400	500
20	1	1 1/2	2	3	4
40	2	3	4	6	8
60	3	4	6	8	10
80	4	5 1/2	8	11	14
100	5	6 1/2	10	13	16
120	6	8	12	16	20
140	7	10 1/2	14	21	24
160	8	12	16	24	28
180	9	13 1/2	18	27	32
200	10	15	20	30	36

All measurements are in dry ounces.

CALCIUM HARDNESS

All water contains some natural hardness, and it varies by geographic region. Calcium hardness is the amount of dissolved calcium in your spa water. The correct hardness range is 200–400 ppm.

Raising Calcium Hardness (CH) with Brilliance® Calcium Hardness Increaser

To Raise CH (ppm)	Spa Volume (gallons)				
	150	200	300	400	500
20	1/2	1/2	1	1 1/2	1 1/2
40	1	1 1/2	2	2 1/2	3
80	2	2 1/2	4	5	6 1/2
120	3	4	5 1/2	7 1/2	9 1/2
160	4	5	7 1/2	10	12 1/2
200	5	6 1/2	9 1/2	12 1/2	16
240	5 1/2	7 1/2	11 1/2	15 1/2	19

All values are in dry ounces.

When increasing calcium hardness, add chemicals in increments of no greater than 40 ppm. For example, to raise calcium hardness 80ppm in a 300-gallon spa:

1. Add 2 ounces of **Brilliance Calcium Hardness Increaser**.
2. Circulate spa water for 15 minutes.
3. Add final 2 ounces of **Brilliance Calcium Hardness Increaser**.

IMPORTANT: Always turn spa blowers off prior to adding any chemicals.



OTHER IMPORTANT WATER BALANCE FACTORS

In addition to regular pH testing, other water conditions should be tested by your Authorized Brilliance® for spas Dealer, though on a less frequent basis. Every four weeks, or when you refill your spa, take a water sample to your dealer in a water sample bottle or a clean, plastic container, for the following tests:

- **Metals** Proper water balance is the key to achieving excellent water quality and protecting your spa equipment (shell, heater, etc.). If you are located in a high calcium or metal content area, use **Brilliance Metal and Scale Control** to control metals and protect against scaling. Metals can enter the water through corrosion of surfaces such as heating elements in the spa's heater or from fill water. It is important that no metals be present in your spa water at any time, as they can cause staining or discolored water.
- **Total Dissolved Solids** Total dissolved solids, or TDS, is the total amount of material dissolved in your spa water. Although the TDS concentration has little effect on water balance, a level above 2,000ppm may cause problems with water clarity, sanitizer efficiency, eye irritation and taste. Be sure to follow your dealer recommendations to correct any imbalances in your spa.
- **Temperature** For health reasons, keep your spa water temperature at or below 104°F. It is especially dangerous for children to be subjected to higher temperatures.

Summary of Recommended Ranges for Water Balance Factors

pH	7.2–7.8
Total alkalinity	80–120 ppm
Calcium hardness	200–400 ppm
Metals	None
Total dissolved solids	Not to exceed 2,000 ppm
Water temperature	Not to exceed 104°F

IMPORTANT

- After the spa is filled take a sample to your Authorized **Brilliance for spas** Dealer to be tested.
- Balance the water according to the recommendations in this guide.
- Chemically clean the filter using **Brilliance Filter Cleaner**, follow label directions. See page 14 for benefits of a clean filter.

START-UP

1. Add **Brilliance Metal and Scale Control** prior to adding **Brilliance Start-Up**, **Brilliance Oxidizer** or **Brilliance Sanitizer**.
2. Add **Brilliance Start-Up**. (See dosage chart below.)
3. Add **Brilliance Oxidizer**. (See dosage chart below.)
4. Fill recommended floater with **Brilliance Sanitizer**. Adjust the flow of water into the floater according to the manufacturer's directions to ensure that the sanitizer level is in the ideal range of 2–4ppm. Circulate the spa water at least three hours every day. It is recommended to use a **Brilliance Floater**.
5. Using a **Brilliance Test Strip**, test the sanitizer level (range: 2–4 ppm) and pH level (range: 7.2–7.8). If those levels are acceptable, and if the temperature is under 104°F, the spa is ready to use.

NOTE: Prior to using any floater, inspect openings to ensure an unrestricted flow of water. Do not add products to any dispensing device containing remnants of any other product.

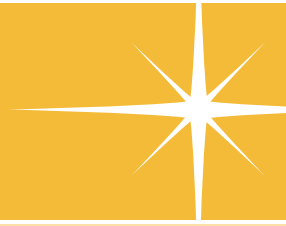
NOTE: **Brilliance Sanitizer** should always be used with a floater and never added directly to the spa. Do not add products to any dispensing device containing remnants of any other product.

NOTE: **Brilliance Sanitizer** is produced in a smaller, unique size, unlike common bromine tablets. **Brilliance Sanitizer** will dissolve at a more even rate and will ensure more consistent bromine levels. Some floaters may not be compatible with **Brilliance Sanitizer**, as the product may fall through the floater opening. Compatible floaters require an opening small enough to contain the sanitizer within the floater, or a screen to prevent **Brilliance Sanitizer** from leaving the floater.

Start-Up Dosage Chart

Spa Volume (in gallons)	Brilliance for spa Start-Up	Brilliance for spa Metal & Scale Control	Brilliance for spa Oxidizer
100	2	1/3	1/4
150	2	1/2	1/4
200	2	2/3	1/4
250	2	1	1/2
300	2	1	1/2
350	2	1 1/3	1/2
400	2	1 1/3	3/4
450	2	1 1/2	3/4
500	2	1 2/3	1

All measurements are in ounces.



IMPORTANT:

If your spa is used daily, following tasks should be performed every other day:

- Test the Sanitizer level using the **Brilliance Test Strips**.
- Check the floater to ensure an adequate amount of **Brilliance Sanitizer** is present; top up sanitizer if needed. Adjust the floater per the manufacturer's recommendations to maintain a Brilliance Sanitizer level of 2-4 ppm.

WEEKLY

3 part system. Easy as **1 · 2 · 3**
one two three

Test and adjust your spa water according to the recommended water balance ranges on page 5.

Implement your weekly Brilliance 1-2-3 Spa Care System For Brilliance spa floater as indicated below:

1. Enhance water clarity & filtration: Add **Brilliance Metal & Scale Control**. (Refer to weekly dosage chart below).
 - CIRCULATE ON HIGH SPEED FOR 30 MINUTES, WITH BLOWERS OFF — DO NOT INJECT AIR.
2. Oxidize the water with **Brilliance Oxidizer** at least once a week. Additional applications are recommended after heavy spa usage or the appearance of cloudy water.
3. Check the floater to ensure an adequate amount of **Brilliance Sanitizer** is present; top up sanitizer if needed. Adjust the floater per the manufacturer's recommendations to maintain a Brilliance Sanitizer level of 2-4 ppm.

NOTE: If Brilliance Sanitizer level tests consistently high, it is recommended to adjust floater setting and/or reduce the frequency of using **Brilliance Oxidizer**.

Weekly Dosage Chart Using a Spa Floater

Spa Volume (in gallons)	Brilliance for spa Metal & Scale Control	Brilliance for spa Oxidizer
100	1/3	1/4
150	1/2	1/4
200	2/3	1/4
250	1	1/2
300	1	1/2
350	1 1/3	1/2
400	1 1/3	3/4
450	1 1/2	3/4
500	1 2/3	1

All measurements are in ounces.

* The above dosage rates for Brilliance Metal and Scale Control are for the liquid version of the product. If you are using a Brilliance Starter Kit or the Mermaid Introductory Kit to start your spa, you have been provided with a more concentrated granular version of the product. One 2-ounce pouch of Brilliance Granular Metal and Scale Control will treat a 500-gallon spa for approximately 3 to 4 weeks.

MERMAID START-UP

After the spa is filled, have the spa water tested by your Authorized **Brilliance for spas** Dealer. Balance the water according to the recommendations in this guide. Remember to also chemically clean your filter using **Brilliance Filter Cleaner**. (Refer to page 15 for detailed instructions.)

1. Add **Brilliance Metal and Scale Control** prior to adding **Brilliance Start-Up**, **Brilliance Oxidizer** or the **Mermaid Sanitizer Dispenser**.
 - CIRCULATE ON HIGH SPEED FOR 30 MINUTES, WITH BLOWERS OFF — DO NOT INJECT AIR.
2. Add **Brilliance Start-Up**. (See dosage chart on page 9.)
3. Add **Brilliance Oxidizer**. (See dosage chart on page 9.)
4. Using a pair of scissors, remove the **Mermaid Sanitizer Dispenser** from the plastic pouch. Remove the foil tab from the back of the dispenser to ensure an effective flow of water is achieved.
5. During the start-up of your spa, turn the front panel of the dispenser clockwise to setting 14. This will open all 14 holes to achieve a **Brilliance Sanitizer** level. Your **Mermaid Sanitizer Dispenser** is now ready to be secured into your spa!



IMPORTANT: All spas and hot tubs are different. For this reason, mounting the **Mermaid Sanitizer Dispenser** will vary depending on what type of spa you own. The ideal place for mounting the **Mermaid Sanitizer Dispenser** is in the skimmer box. This is usually where your filter cartridges are located. If your spa does not have a skimmer box, mount the **Mermaid Sanitizer Dispenser** close to the filtration area.

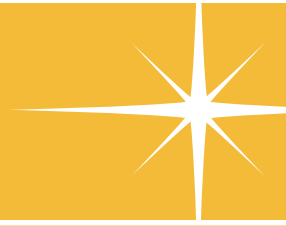
6. Select an area within the spa skimmer box or near the filtration area where the **Mermaid Sanitizer Dispenser** can be completely submerged. With the **Mermaid Sanitizer Dispenser** set at 14, attach the two suction cups provided to the back of the dispenser. Gently push the **Mermaid Sanitizer Dispenser** against the selected area to seal the suction cups. Ensure that the **Mermaid Sanitizer Dispenser** is securely mounted with the holes on the bottom.

NOTE: Some spa surfaces are more porous than others. In some situations these porous surfaces will not allow the suction cups to seal.



(go to next page)

BRILLIANCE® START-UP USING MERMAID SANITIZER DISPENSER



In such cases, use the 3M VHB adhesive strip provided to create a smooth surface to which the suction cups can seal. Simply apply the adhesive strip to the location in the spa where the **Mermaid Sanitizer Dispenser** is to be mounted. Apply the **Mermaid Sanitizer Dispenser** using the attached suction cups.

7. After your **Mermaid Sanitizer Dispenser** has been mounted into your spa, check your **Brilliance Sanitizer** level using **Brilliance Test Strips** to ensure a 2–4 ppm level has been established.
8. Upon achieving a 2–4 ppm **Brilliance Sanitizer** level, reduce the **Mermaid Sanitizer Dispenser** to the maintenance setting. Using the table below, select the **Mermaid Sanitizer Dispenser** setting based on the volume of your spa. Set the **Mermaid Sanitizer Dispenser** to the required setting by turning the front panel.

Start-Up Dosage Chart Using the Mermaid Sanitizer Dispenser

Spa Volume (in gallons)	Brilliance for spa Start-Up	Brilliance for spa Metal & Scale Control	Brilliance for spa Oxidizer	Mermaid Sanitizer Dispenser Setting
100	2	1/3	1/4	2
150	2	1/2	1/4	3
200	2	2/3	1/4	4
250	2	1	1/2	5
300	2	1	1/2	6
350	2	1 1/3	1/2	7
400	2	1 1/3	3/4	8
450	2	1 1/2	3/4	9
500	2	1 2/3	1	10

All measurements are in ounces.
Dispenser setting refers to the number of open holes.

*The above dosage rates for Brilliance Metal and Scale Control are for the liquid version of the product. If you are using a Brilliance Starter Kit or the Mermaid Introductory Kit to start your spa, you have been provided with a more concentrated granular version of the product. One 2-ounce pouch of Brilliance Granular Metal and Scale Control will treat a 500-gallon spa for approximately 3 to 4 weeks.

BRILLIANCE® ROUTINE MAINTENANCE USING MERMAID SANITIZER DISPENSER

IMPORTANT:

If your spa is used daily, the following tasks should be performed every other day.

- Test the Sanitizer level using the **Brilliance Test Strips**.
- Check the Mermaid Sanitizer Dispenser to ensure it contains an adequate amount of **Brilliance Sanitizer**. Adjust the Mermaid Sanitizer Dispenser setting to maintain a Brilliance Sanitizer level of 2-4 ppm.

WEEKLY

3 part system. Easy as **1 · 2 · 3**
one two three

Test and adjust your spa water according to the recommended water balance ranges on page 5.

Implement your weekly Brilliance 1-2-3 Spa Care System for **Brilliance Mermaid Dispenser** as indicated below:

1. Enhance water clarity & filtration: Add **Brilliance Metal and Scale Control**. (See dosage chart below).
 - CIRCULATE ON HIGH SPEED FOR 30 MINUTES, WITH BLOWERS OFF — DO NOT INJECT AIR.
2. Oxidize the water with **Brilliance Oxidizer** at least once a week. Additional applications are recommended after heavy spa usage or the appearance of cloudy water.
3. Check the floater to ensure an adequate amount of **Brilliance Sanitizer** is present; top-up sanitizer if needed. Adjust the floater per the manufacturer's recommendations to maintain a Brilliance Sanitizer level of 2-4 ppm.

NOTE: If the **Brilliance Sanitizer** level tests consistently high, it is recommended to adjust the **Mermaid Sanitizer Dispenser** setting and/or reduce the frequency of using **Brilliance Oxidizer**.

NOTE: The **Mermaid Sanitizer Dispenser** contains enough **Brilliance Sanitizer** to last approximately 3–5 weeks, depending on your spa size. Once the dispenser is empty it should be discarded and replaced with another **Mermaid Sanitizer Dispenser**.

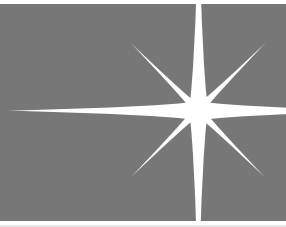
Weekly Dosage Chart Using the Mermaid Sanitizer Dispenser

Spa Volume (in gallons)	Brilliance for spa Metal & Scale Control	Brilliance for spa Oxidizer	Mermaid Sanitizer Dispenser Setting
100	1/3	1/4	2
150	1/2	1/4	3
200	2/3	1/4	4
250	1	1/2	5
300	1	1/2	6
350	1 1/3	1/2	7
400	1 1/3	3/4	8
450	1 1/2	3/4	9
500	1 2/3	1	10

All measurements are in ounces. Dispenser setting refers to the number of open holes.

*The above dosage rates for Brilliance Metal and Scale Control are for the liquid version of the product. If you are using a Brilliance Starter Kit or the Mermaid Introductory Kit to start your spa, you have been provided with a more concentrated granular version of the product. One 2-ounce pouch of Brilliance Granular Metal and Scale Control will treat a 500-gallon spa for approximately 3 to 4 weeks.

ALTERNATIVE SANITIZING SYSTEM START-UP USING CHLORINATING GRANULES OR BROMO TABS



IMPORTANT:

After the spa is filled, have the spa water tested by your Authorized **Brilliance for spas** Dealer.

- Balance the water according to the recommendations in this guide.
- Chemically clean your filter using **Brilliance® Filter Cleaner**. (Refer to page 14.)

WEEKLY

1. Add **Brilliance Metal and Scale Control** prior to adding **Brilliance Start-Up, Brilliance Oxidizer, Bromo Tabs or Chlorinating Granules**.
 - CIRCULATE ON HIGH SPEED FOR 30 MINUTES WITH BLOWERS OFF – DO NOT INJECT AIR.
2. Add **Brilliance Start-Up** if using Bromo Tabs. If using Chlorinating Granules Brilliance Start-Up **should not** be used.
3. Add **Brilliance Oxidizer** if using Bromo Tabs (Brilliance Oxidizer should not be added at start-up if using Chlorinating Granules).
4. a. If using **Chlorinating Granules**, add the initial dose of the Chlorinating Granules using the start-up table on the next page.
 - b. If using **Bromo Tabs**, fill recommended floater with **Bromo Tabs**. Adjust the flow of water into the floater according to manufacturer recommendations. Place the filled floater into the spa or hot tub.
 - CIRCULATE ON HIGH SPEED FOR 15 MINUTES WITH BLOWERS OFF – DO NOT INJECT AIR.

Start-Up Dosage Chart

Spa Volume (in gallons)	Brilliance for spa Start-Up	Brilliance for spa Metal & Scale Control	Brilliance for spa Oxidizer
100	2	1/3	1/4
150	2	1/2	1/4
200	2	2/3	1/4
250	2	1	1/2
300	2	1	1/2
350	2	1 1/3	1/2
400	2	1 1/3	3/4
450	2	1 1/2	3/4
500	2	1 2/3	1

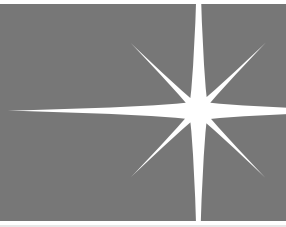
All measurement are in ounces.

5. Using a **Brilliance® Test Strips**, test for either Free Chlorine or Total Bromine, depending on the product being used, as listed below:
 - a. **If using Chlorinating Granules**, test the free available chlorine level and the pH level (range: 7.2–7.6). If the Free Chlorine level is less than 4-5 ppm, repeat Step #4a as needed. Once those levels are acceptable, and if the temperature is under 104° F, the spa is ready to use.
 - b. **If using Bromo Tabs**, test the Total Bromine level (range: 2–4 ppm) and pH level (range 7.2–7.8). If those levels are acceptable, and if the temperature is under 104° F, the spa is ready to use.

Start-Up Dosage Chart

Spa Volume (in gallons)	Brilliance® for spa Chlorinating Granulges
100	1/4
150	1/4
200	1/4
250	1/2
300	3/4
350	3/4
400	1
450	1
500	1 1/8

All measurement are in ounces.



IMPORTANT:

If your spa is used daily, the following tasks should be performed every other day.

- Using **Brilliance® Test Strips**, test the Free chlorine or the Total Bromine level depending on which sanitizer is being used.
 - a. If using **Chlorinating Granules**, add additional **Chlorinating Granules**, in order to maintain a 3-5 ppm level.
 - b. If using **Bromo Tabs**, adjust the floater to maintain a Total Bromine level of 2-4 ppm if necessary.

WEEKLY

1. **Add Brilliance Metal & Scale Control.**(See dosage chart below.)
 - CIRCULATE ON HIGH SPEED FOR 30 MINUTES WITH BLOWERS OFF – DO NOT INJECT AIR.
2. **Add Brilliance Oxidizer** at least once a week. Additional applications are recommended after heavy spa usage or the appearance of cloudy water.
3. Using **Brilliance Test Strips**, check the Free Chlorine or Total Bromine and top-up if necessary to maintain a range of 2-4ppm.

Maintenance Dosage Chart

Spa Volume (in gallons)	Brilliance Metal & Scale Control	Brilliance Oxidizer
100	1/3	1/4
150	1/2	1/4
200	2/3	1/4
250	1	1/2
300	1	1/2
350	1 1/3	1/2
400	1 1/3	3/4
450	1 1/2	3/4
500	1 2/3	1

All measurement are in ounces.

Chlorinating Granules Maintenance Dosages

Spa Volume (gallons)	Chlorinating Granules
100	1/8
150	1/8
200	1/4
250	1/4
300	1/3
350	1/3
400	1/2
450	1/2
500	2/3

All measurement are in ounces.

COVER

Clean your cover every other week with **Brilliance® Cover Cleaner**, concentrating on the water side.

Here's how:

1. If possible, place cover upside down on a flat surface.
2. Pour a puddle of **Brilliance Cover Cleaner** (about 6"–9" in diameter) onto cover inside and scrub with a spa cleaning pad.
3. Rinse cover thoroughly and replace cover on spa.
4. Pour a 2"–3" puddle of **Brilliance Cover Cleaner** on top of cover, scrub with a spa cleaning pad and rinse thoroughly.

SHELL

Clean your spa shell at the waterline regularly with **Brilliance Surface Cleaner** and a spa cleaning pad, rinse thoroughly.

FILTER

Clean your spa filter at least once every 4–6 weeks with **Brilliance Filter Cleaner**. Key to a clean clear spa. Follow label directions.

Why you should clean your spa filter

By filter cleaning, we are not referring to your regular backwashing and rinse routine – but rather the process of chemically cleaning your filter. A filter that's operating properly keeps the water clear by trapping the hair, oils and cosmetics that wash off when people use the spa. When the filter is dirty this debris stays in the water.

Regular attention to your filter will result in:

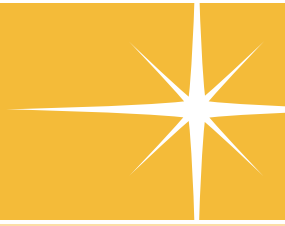
- better circulation in your spa,
- effective distribution of chemicals,
- less opportunity for corrosion and scaling.

All in all, the result will be improved water clarity and that's what spa owner strive for all year long – so remember to give your filter a little TLC this year.

NOTE: Do not use filter cleaners that are recommended for pools. Always use a Brilliance recommended filter cleaner for use with your Brilliance Water Care System.

WATER
CHANGING
GUIDELINES

Although **Brilliance Sanitizer** is persistent at controlling bacteria, it's important to remember that a spa is a small body of water. Continual use means bathers will deposit large amounts of dirt, perspiration, body oils, deodorant, makeup and other contaminants into a relatively small volume of water. **We recommend changing your spa water every 60–90 days or whenever an extreme water quality problem develops.** After draining, clean the empty spa shell thoroughly with **Brilliance Surface Cleaner**. Rinse thoroughly before refilling. This is also an ideal time to clean your spa cover and filter.



BRILLIANCE SANITIZER

The principal chemical in the Brilliance product line, **Brilliance Sanitizer** is a concentrated source of active bromine. This 100% chlorine-free product dissolves slowly and evenly in spa floaters to provide continuous sanitization of your spa.

BRILLIANCE OXIDIZER



Non-chlorine shock treatment that eliminates odors and reduces irritating contaminants, to leave water sparkling clear. Also contains mineral salts, which disperse in the spa water to promote relaxation and soothe the skin.

BRILLIANCE METAL & SCALE CONTROL



A metal control agent used to deactivate metals and control scale, which can cause staining and affect water clarity and filtration. Contains soy protein to moisturize spa water for a luxurious spa experience.

BRILLIANCE START-UP

Establishes a “bromide bank” in the spa water. Used to ensure immediate bromine level is produced.

BRILLIANCE TEST STRIPS

Five-way water test strips for testing the level of calcium hardness, Brilliance Sanitizer or Total Bromine, pH, total alkalinity and Free Chlorine.

THE MERMAID BY BRILLIANCE SANITIZER DISPENSER

Pre-filled 100% Chlorine-free sanitizer dispenser that replaces a floater. Eliminates the need for manually dosing sanitizer. Fits neatly into the skimmer box or filtration area.

BRILLIANCE FOAM DISPERSER



A highly concentrated liquid, specially formulated to reduce foam in spas.

**BRILLIANCE
FILTER CLEANER**

A concentrated liquid cleaner that removes deposits from filter cartridges. Provides powerful citrus cleaning action and a pleasant lemon scent.

BRILLIANCE COVER CLEANER

A citrus-scented liquid cover cleaner that effectively removes dirt, dust and debris from both sides of the spa cover.

BRILLIANCE SURFACE CLEANER

A highly concentrated gel which removes dirt, oils, stains, etc. at the waterline. Effectively removes “bathtub ring” from spa shells. Safely cleans all types of spa shells.

**BRILLIANCE
WATER CLARIFIER**

A liquid that restores water clarity by assisting the filter in removing tiny particles that can cause clouding. Also contains Bioplex® NMF with moisturizers to condition and soften spa water for a relaxing spa experience.

BRILLIANCE CALCIUM HARDNESS INCREASER

Raises spa water calcium hardness levels.

BRILLIANCE pH INCREASER

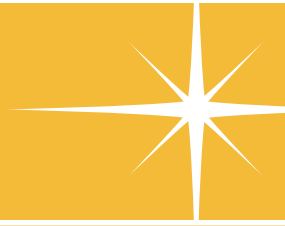
Raises spa water pH levels. Contains mineral salts with a fresh scent.

**BRILLIANCE
pH DECREASER**

Lowers spa water pH levels. Contains mineral salts with a fresh scent.

**BRILLIANCE TOTAL
ALKALINITY INCREASER**

Raises spa water total alkalinity levels.



BRILLIANCE STARTER KIT

Convenient kit used to start up on **Brilliance for spas** system includes 8 oz. **Brilliance Sanitizer**, 8 oz. **Brilliance Oxidizer**, 2 oz. **Brilliance Start-Up**, 2 oz. **Brilliance Granular Metal & Scale Control**, a **Brilliance Floater**, 10 **Brilliance Test Strips**, a measuring cup, and a **Brilliance** consumer spa care guide.

THE MERMAID BY BRILLIANCE SANITIZER DISPENSER INTRODUCTORY KIT

Start-up kit used to begin spas on the **Mermaid by Brilliance Sanitizer Dispenser**. Kit includes a **Mermaid Sanitizer Dispenser**, 8 oz. **Brilliance Oxidizer**, 8 oz. **Brilliance Start-Up**, 2 oz. **Brilliance Granular Metal & Scale Control**, 2 oz. 10 **Brilliance Test Strips**, suction cups, a measuring cup, **Mermaid Sanitizer Dispenser** instruction sheet, and a **Brilliance** consumer spa care guide.

being® SPA AROMATHERAPY for the mind, body and spirit
Line of aromatherapy products with aromatic blends for use in spas and baths.

BROMO TABS (ALTERNATIVE SANITIZER)

Traditional bromine tablets which provide effective and reliable sanitization for spas and hot tubs. Intended for use in traditional spa and hot tub floaters.

CHLORINATING GRANULES (ALTERNATIVE SANITIZER)

56% available chlorine dichloro granules for spa and hot tubs sanitization purposes. Intended for use after each time the spa or hot tub is used. Chlorinating Granules should not be used if using Brilliance Sanitizer, the Mermaid Sanitizer Dispenser or Bromo Tabs.



NOW WITH AQUA ENHANCERS®

And now the benefits of **Brilliance for spas** system are even more appealing with the addition of Aqua Enhancers® – unique additives that condition spa water to promote a truly skin-soothing spa experience.

Your spa will give you years of enjoyment, yet like any water recreation, there are certain precautions which must be followed to minimize the risk of injury.

TIPS FOR SAFE, HEALTHY SPA USE

Proper ventilation: If spas are inadequately ventilated, some users may experience slight throat irritation. Indoor spas should be adequately ventilated naturally or mechanically (i.e. an exhaust fan). If symptoms develop, take appropriate action to improve the ventilation of the area (open windows, install exhaust fan, etc.) and/or see your local dealer.

Temperature: Keep your spa water temperature no higher than 104°F. Temperatures higher than this can place undue strain on the cardiovascular system. A quality, shatterproof thermometer should always be used to accurately measure spa water temperature.

Medical conditions: Persons with diabetes, high blood pressure, heart disease or other cardiovascular conditions should consult their physician before using a spa.

Shower first: To reduce the likelihood of contaminating spa water and to minimize health risks, always shower with soap and water prior to use.

Infection spreading: Persons with open sores or any type of infection should not use the spa. Hot water is an ideal environment for spreading infection, especially if sanitizer levels are not properly maintained.

Soak time: Limit spa use to no more than 15 minutes at a time.

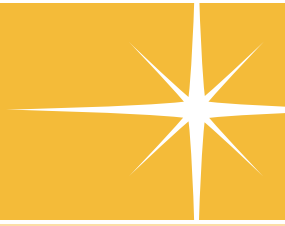
Restrict alcohol use and medications: Never drink alcoholic beverages before or during spa use. Alcohol can make you drowsy and lead to drowning. Anyone taking medication should consult their physician before soaking in a spa.

Child safety: Children should not be permitted to use the spa without adult supervision.

Pregnancy: Women who are pregnant should consult their physician before using a spa.

Long hair: Always tie long hair back to keep it away from the filter intake and drain.

Slips and spills: Handrails and non-slip surfaces will help to minimize the risk of slipping and falling.

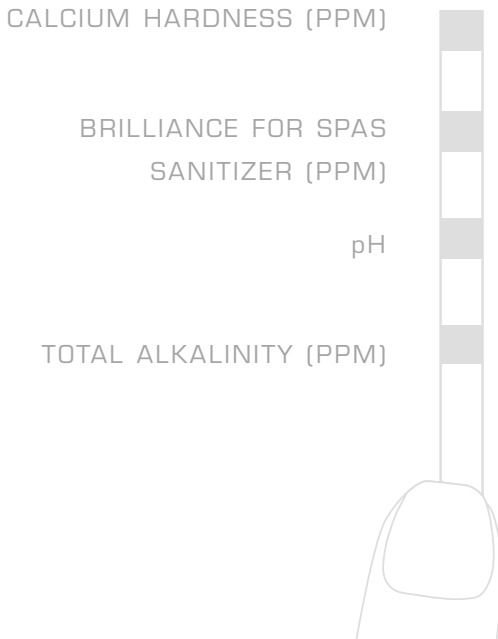


Electrical appliances: Never use any electrical devices while using a spa.

Severe weather: Do not operate or soak in a spa during severe weather conditions (i.e., electrical storms, tornadoes, etc.).

HANDLING CHEMICALS

- Never mix chemicals together. The result could be fire, explosion, or release of dangerous gas.
- Most spa chemicals are harmful if swallowed — many can injure skin and eyes.
- Keep out of reach of children.
- Always store chemicals in a cool, dry, well-ventilated place. Chemicals must be kept in their original containers. They must never be stored next to a heat source or open flame. Do not store in car trunk, or next to other chemicals — especially fertilizers and insecticides.
- Always add the chemical to the water, never the water to the chemical. Keep containers closed to seal out water or contamination.
- Always use clean, dry equipment when handling, transferring or measuring chemicals.
- Always follow label instructions for any chemical spills.
- Know the first aid instructions for all the chemicals you use. Keep emergency medical and poison control numbers handy. In case of emergency, call the poison control center nearest you or call **1-800-654-6911**.
- Don't smoke and handle chemicals. Some of the fumes are explosive.
- Keep concentrated chemicals away from lawn and plantings.
- Always make sure containers are tightly resealed immediately after use.
- Always wear the proper protective equipment (rubber gloves, safety goggles, etc.) when handling chemicals.

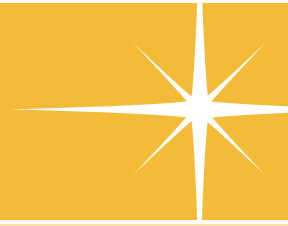


FOUR TESTS IN ONE

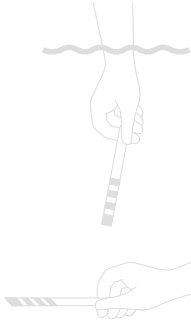
Brilliance Test Strips are a quick and easy way to check your spa water's calcium or total hardness, Brilliance Sanitizer/Total Bromine, Free Chlorine, pH and total alkalinity levels. Each of the five pads on the test strip checks for a different water condition.

TIPS FOR BEST RESULTS

- Always dry your hands before removing test strips from the bottle.
- Replace and tighten the lid immediately after removing a strip to help keep the rest fresh.
- Store the strips in a cool, dry place.
- Leave the packet of drying agent in the bottle.



HOW TO USE BRILLIANCE FOR SPAS TEST STRIPS



STEP 1



Remove a **Brilliance Test Strip** from the bottle and replace cap tightly. Dip the strip into your spa for one second and remove.

Important: Do not “swish” the strip back and forth, as this will affect the accuracy of the test.

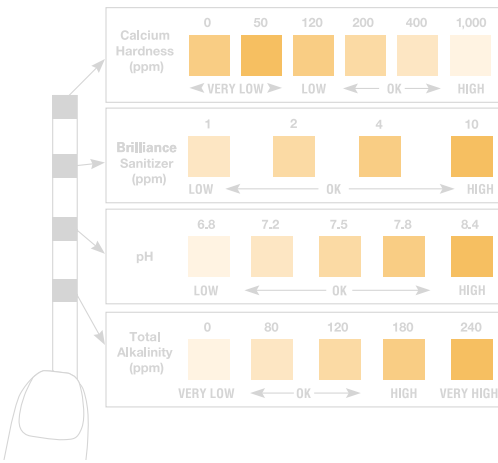
STEP 2



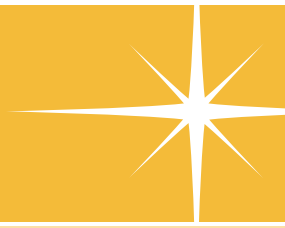
Hold the strip level, pad side up, for 15 seconds. Do not shake excess water from the test strip.

STEP 3

Compare the calcium or total hardness, pH, total alkalinity, and **Brilliance Sanitizer**/Total Bromine or Free Chlorine pads to the corresponding color blocks on the **Brilliance Test Strips** bottle. The color chart will tell you whether or not your calcium or total hardness, pH, total alkalinity and **Brilliance Sanitizer**/Total Bromine or Free Chlorine are at the appropriate levels. If not, refer to the appropriate section in this guide for instruction on how to bring your levels within the proper ranges. The **Spa Maintenance Log** on the next page is for you to record the results of your tests.



Date Tested	Brilliance® Sanitizer /total Bromine reading	pH reading (between 7.2 and 7.8) after adjusting with Brilliance Balance Chemicals	Brilliance Oxidizer (amount added)	Brilliance Metal & Scale Control (amount added)
1				
2				
3				
4				
5				
6				
7				
8				
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PROBLEM	CAUSE	SOLUTION
Calcium deposits on spa shell rough surface	Water not in balance	Test water balance and adjust if necessary. Clean with Brilliance® Surface Cleaner .
Cloudy water	Water not in balance	Test water balance and adjust if necessary.
	Dirty or damaged filter.	Clean or change filter cartridge.
	Low Brilliance Sanitizer.	Test Brilliance Sanitizer level and adjust if necessary.
	Addition of incompatible chemicals.	Drain spa and refill.
Colored water	Build-up of body oils, impurities.	Add Brilliance Oxidizer.
	Copper or iron metals in spa due to fill water or corrosion of heater.	Add Brilliance Metal & Stain Control .
Eye and skin irritation	Total alkalinity, pH are low.	Test water balance and adjust if necessary.
	Water not in balance.	Test water balance and adjust if necessary.
	Inadequate Brilliance Sanitizer level.	Check floater setting, hole openings and circulation time. Add Brilliance Sanitizer if necessary.
Throat irritation	Build-up of body oils, impurities.	Add Brilliance Oxidizer .
	Addition of incompatible chemicals.	Drain spa and refill. Clean or change filter.
	Associated with aeration of spa.	Check floater setting and circulation and Brilliance Sanitizer as necessary. Test and adjust the water balance. Improve ventilation of indoor spa.

PROBLEM	CAUSE	SOLUTION
Excessive foam	Low Calcium hardness.	Test water balance and adjust if necessary.
	Addition of incompatible chemicals.	Drain spa and refill.
	Build-up of body oils, impurities.	Add Brilliance® Oxidizer .
	Old water.	Drain spa and refill.
Odor	Inadequate cleaning of spa cover.	Clean the underside of the spa cover with Brilliance Cover Cleaner .
	Inadequate cleaning of filter.	Chemically clean filter with Brilliance Filter Cleaner .
	Inadequate cleaning of spa shell.	Clean shell with Brilliance Surface Cleaner .
	Inadequate ventilation.	Improve ventilation of indoor spa.
	Addition of incompatible chemicals.	Drain spa and refill.
	Insufficient oxidation.	Add Brilliance Oxidizer .
Waterline deposits	Water not in balance	Test water balance and adjust if necessary. Clean with Brilliance Surface Cleaner .
	Build-up of body oils, impurities.	Add Brilliance Oxidizer . Clean with Brilliance Surface Cleaner .
High sanitizer consumption	Excess sanitizer level.	Check floater setting and circulation time.
Metal present in water	Water not in balance and is corrosive Metals in fill water.	Add Brilliance Metal & Scale Control .

NOTE: Most water chemistry problems can be resolved by the recommended solutions above. Extreme chemical conditions may warrant draining and refilling the spa. Stains or calcium deposits on the spa may require attention prior to refilling.

If after following the suggested solutions outlined in the Troubleshooting section you are not able to solve a particular problem. Contact your Authorized Brilliance for spas Dealer.