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Genesis Blu Fusion
Automatic Bromine Generator
For Spa Sanitizing

REPLACEMENT CELL

for the Automatic Bromine Generator Blu Water Technology Model Blu Fusion

READ THE LABEL AND OPERATION/INSTALLATION MANUAL OF
THE GENESIS Blu Fusion AUTOMATIC BROMINE GENERATOR BEFORE USING.

REGISTRATION NO. 30525 PEST CONTROL PRODUCTS ACT

This cell must only be used on this model of Automatic Bromine Generator.

Hot Tub Solutions D/B/A Blu Water Technology Inc,

P.O. Box 2315 Humble, Texas 77347-2315 USA

Customer Help Desk 1-855-447-8772

KEEP OUT OF REACH OF CHILDREN

Genesis Blu Fusion
Automatic Bromine Generator
For Spa Sanitizing

DOMESTIC

READ THE LABEL AND OPERATION/INSTALLATION MANUAL BEFORE USING.
FOR SPAS, A RANGE OF 3-5 PPM OF FREE AVAILABLE BROMINE MUST BE MAINTAINED.

Maximum output of Hypobromous Acid equivalent to 0.04 kg of bromine per day

AUTOMATIC BROMINE GENERATOR MODEL Blu Fusion

Controls Bacteria and Algae in Spa Water

One Blu Fusion Automatic Bromine Generator unit can treat a maximum of 1900 Litres of spa water.

WARNING: Operating the Genesis Blu Fusion Automatic Bromine Generator without water flow through
the cell can cause a build up of flammable gases which can result in FIRE or EXPLOSION.

TESTED AND LISTED TO ANSI/UL - STD. 1081 5TH ED.

AND CAN/CSA STD. C22.2 NO .0

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USER MANUAL

Genesis automated bromine generator systems for spas, hot tubs and swim spas



Genesis
BLU FUSION

Standard and Top-Side (TS)

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Never use chlorine in your spa; use only non-chlorine shock!

Never use CYA or cyanuric acid in your spa!

Never enter a spa when bromine is NOT present!

Children should always be supervised around your spa!

Always cover your spa when not in use!



WARNINGS:

When using this electrical equipment, basic safety precautions should always be followed, including the following:

- Y **BEFORE CONNECTING YOUR SYSTEM READ AND FOLLOW ALL INSTRUCTIONS**
- Y In Canada, the appliance must be connected through a residual current device (RCD) that has a rated residual operating current not exceeding 30 mA. In the US, Genesis BLU FUSION must be connected to a circuit protected by a ground fault circuit interrupter (GFCI).
- Y A terminal marked Earth/Ground, or the \perp is located inside the supply terminal box or compartment.
- Y To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- Y *Live* parts, except parts supplied for low-voltage (not exceeding 12 volts), must be inaccessible to a person in the spa.
- Y Earth/Ground appliances must be permanently connected to fixed wiring.
- Y Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the bath.
- Y Genesis BLU FUSION shall be attached with screws. Make sure that the screws do not contact internal circuitry. Make sure that the screws do not allow the ingress of liquid.
- Y If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
- Y In Canada, the Sodium Bromide must be scheduled or registered under the Pest Control Product Act. In the US, Genesis BLU FUSION must only be used with Sodium Bromide registered with the EPA.
- Y Always clean and/or replace your filter at least once every month.
- Y Your Genesis BLU FUSION unit should be installed after the heater in the circulation pump line.
- **WARNING – To reduce the risk of injury, do not permit children to use this product.**
- Y Follow all aspects of the local and National Electrical Code(s) when installing this device.

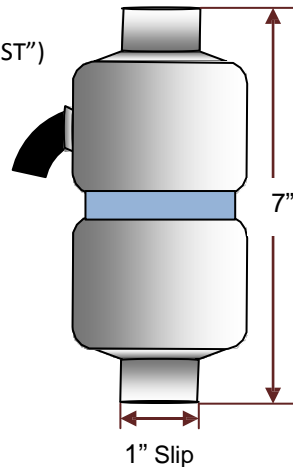


Genesis BLU FUSION system components

Unit Features:

- Logix Controller with adjustable bromine output (12 settings plus "BOOST")
- Automatic polarity reversal (every 2 minutes)
- Patent pending Graphitic Electrode Cell
- Automatic voltage detection of 110 to 240 volts AC (50-60 Cycles)
- Power Consumption: 151S = 20 Watts, 34 VA Maximum
- 2 Year Electronic Warranty
- 2 Year Cell Replacement Warranty

WARRANTY is VOID if Electrode is installed horizontally!!!



Genesis BLU FUSION - Complete System Includes:

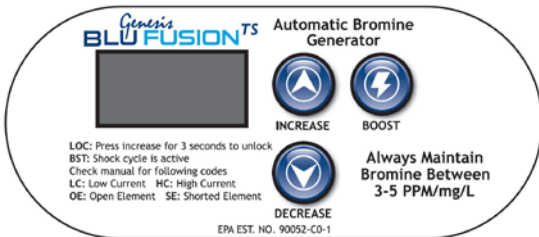
1 -Electronic controller "NEMA 4X/IP65 enclosure, 12 different power settings plus "BOOST", duty cycle control to 97% Efficiency, 110 to 240 volts AC input line voltage, automatic polarity reversal ensures effective electrode cell operation".

1 – Bromine generating electrode cell

1 – TRU BLU Sodium Bromide Test Strips (Test strips test for NaBr ONLY- **NOT for testing**

Bromine) 2 – 1" to 3/4" barbed elbows

1 – Phosphates Test Kit

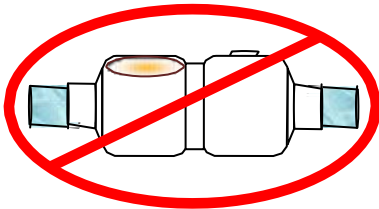




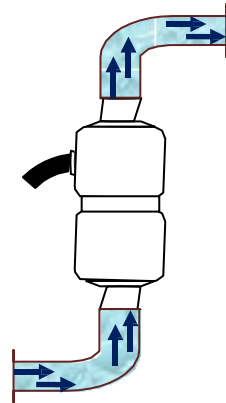
INSTALLATION INSTRUCTIONS

CAUTION: READ THE INSTRUCTION MANUAL

NEVER Horizontal



ALWAYS Vertical



Electrode must be installed **VERTICALLY!**

WARNING: DISCONNECT THE ELECTRIC POWER BEFORE SERVICING - USE ONLY COPPER CONDUCTORS

ELECTRICAL: The Genesis BLU FUSION Unit must be wired to the circulation side of the pump cycle to ensure operation takes place **ONLY** during low-speed circulation.

PLUMBING: Use a jet-line from a manifold that operates during low-speed circulation. Electrode should be installed as the last component before water re-enters the spa. **DO NOT** use a jet-line that can be shut off as this can result in electrode failure if the jet is shut-off while the system is in use.

1. Control box must be installed vertically and **MUST NEVER** be laid flat on its back. This may cause water damage not covered by your warranty!
2. Loosen the four screws at the four corners of the case cover (top).
3. Insert the flexible type SW, SWT, SJ, or SJT copper power wiring through the liquid tight compression connector on the case. Refer to the wiring diagram inset. The opposite end of the power wiring should be connected to the spa power supply and the connection must include a GFCI. If the spa is not connected to a GFCI, one must be provided.
4. Tighten the nut on the liquid tight compression connector until a good seal is made against the outside insulation of the wire.
5. Strip the insulation back on the white, black, and Green wires 3/8 inch.
6. Insert the Green wire into one of the Earth/Ground \perp terminals.
7. Insert the White and Black wires in the Line Voltage terminals (L1, L2) The polarity of the Line Voltage terminals is not significant.
8. Replace the case cover. Make sure that the cover screws are sufficiently tight to prevent liquid infiltration.



How does my Genesis BLU FUSION Unit Work?

This Automatic Bromine Generator device is the easiest and most cost-effective way to keep your spa sparkling clean and always inviting. BLU FUSION is the latest model in the proven Genesis product line and uses naturally occurring bromide salt in your spa's water and through a low voltage current, converts it into pure bromine; this process is called electrolysis. Bromine remains present in your water as long as you are managing your water effectively. By eliminating any chemical by-products, the wasteful spa draining and refilling cycles are dramatically reduced – ultimately saving thousands of gallons of water annually and virtually eliminating chemical additives.

The system produces low levels of 100% pure bromine that does not contain calcium, binders, chlorine and fillers- all of which *are* ingredients in brominating tablets and powders. This dramatically increases water quality and clarity plus allows you to go up to a year between drain and refill time depending on usage. Additionally, pure bromine swiftly eliminates the presence of organic materials left behind by spa bathers such as oils, sweat, and skin cells

1. First, add Tru Blu Sodium Bromide to spa water. You do this once during the initial start-up process. Monitor your Sodium Bromide levels periodically.

2. Sodium Bromide circulates through the spa's system.

3. The dissolved Sodium Bromide makes contact with the Genesis electrode, converting Sodium Bromide into Bromine.

4. The Bromine cleans the spa's water then reverts back to Sodium Bromide, completing the perpetual cycle.

How it Works:

Genesis converts naturally occurring bromide salt in your Spa's water into pure Bromine, providing continually clean, inviting, and always-safe water.

The diagram illustrates a four-step cycle: 1. Water from the spa passes through a FILTER. 2. The filtered water is moved by a PUMP. 3. The water then passes through a HEATER. 4. The heated water returns to the spa, where the bromine cycle is completed.



Start-up/operating instructions

BEFORE STARTING

Be certain you start with a clean spa. It should be free of contaminants and other residues that can accumulate on the sides and/or around the jets. It is also important to only use spa cleaning products that have no phosphates or phosphonic acids since phosphates will deplete free bromine and are super-food for algae. Always start your spa with a clean filter before filling with water.

If the water source is “well water” or a non-municipal water source, you should have your water tested for Total Dissolved Solids (TDS) and metals. Water with high TDS is likely to have higher metal content and will need a metal remover to decrease the metals and help ensure a successful start. This test can be done by your local spa dealer. The ideal range for your start-up TDS is between 50 and 200 PPM - mg/L. If TDS from your source water is above 500 PPM, a metal remover is strongly recommended.

1. Using your PURE FILL Spa Pre-Filter, fill your spa with water to the recommended level and ***DO NOT FILL WITH WATER FROM A “RESIDENTIAL WATER SOFTENER”***.
2. Before starting the system, balance your water chemistry to ensure a successful start up. Ideal ranges are as follows:

Free available bromine (3.0-5.0 ppm)

pH (7.2-7.8)

Total Alkalinity (100-120)

Calcium Hardness (150-200 PPM)

Phosphates (0 - 30 PPB)

Salt (sodium bromide) (1000-1700 ppm)

Use the phosphate test kit included with your system. Bromine residuals will be significantly reduced if phosphate levels are high. If phosphates are detected, purchase a phosphate remover and follow the directions accordingly. **Any** phosphates in your spa will reduce bromine levels.

3. Determine the level of “NaBr” (Sodium Bromide) required for your spa size. NaBr should be added at a rate of 143 g per 100 Litres (1.2 lb per 100 US gallons) or approximately 1300-1500 PPM.

Example: For a 1900 Litre spa add approximately 2.72 kg of NaBr (143 g x 19 = 2717 g). (For a 500 US gallon spa add approximately 6 lb NaBr – 1.2 lb x 5 = 6 lb).



4. Turn jets on high speed, broadcast/sprinkle the NaBr across the surface of the water to help evenly distribute the NaBr into the spa and let circulate for 30 minutes.
5. Test the Sodium Bromide concentration with the Tru-Blu NaBr test kit. If you have added the correct amount of NaBr, you should have a reading between 1300-1500 PPM.
6. Adjust the filtration time to circulate a minimum of 8 hours every 24 hours on a 2 speed pump.
7. For an average spa between 300-500 gallons we recommend starting at a power setting of "6" and then press the "boost" feature. This will accelerate the production of the bromine level for the next eight (8) hours. Do not immediately enter your spa, wait until proper bromine levels are reached.
8. Always keep your bromine level between 3-5 PPM. The spa size, filtration, and bather demand will determine what maintenance setting is required. Test your bromine level after 24 hours and adjust the power setting up or down depending on the bromine levels that are indicated. Adjusting more than 1 setting at a time will have a significant impact on the daily bromine output. For the occasional heavier bather load, you may press "boost" instead of adjusting your power setting.

Genesis BLU FUSION Maintenance and Operation

WATER CHEMISTRY

Spa owners should purchase bromine/ pH/ Total Alkalinity (3 in 1) test strips from a spa dealer and test spa's water regularly to ensure that **pH, Alkalinity and Bromine levels are in the proper range**. Never enter a spa that has cloudy water or insufficient bromine levels. Your spa dealer has a variety of chemicals to increase or decrease your pH value and Total Alkalinity. If you are unsure how to use these chemicals after reading the products directions, consult your dealer for assistance.

FINDING THE RIGHT POWER SETTING is really quite simple.

For the first few days of operation monitor your Bromine Level. The ideal level for bromine in spas is between 3-5 PPM. Should your bromine elevate above 5 PPM, reduce power setting daily until the desired bromine level is achieved. Adjusting more than 1 setting at a time will have a significant impact on the daily bromine output.

HOW MANY HOURS A DAY SHOULD MY LOW SPEED PUMP BE CIRCULATING?

Circulation time is a very important element for clean and inviting water. **Eight (8) hours is the minimum circulation time needed** for Genesis BLU FUSION to create the proper amount of bromine for your spa. Your system should only be powered up and producing Bromine when your spa is circulating. It is recommended to use a 24- hour circulation pump for spas over 3800 Litres (1,000 US Gallons).



CLEANING THE SPAS FILTERS

FILTER MAINTENANCE: Filters should be cleaned monthly in ALL Spas. Remove the spa filter(s) from your spa and immerse in a 20 Litre (5 gallon) bucket of clean water. Then add a filter cleaner with NO PHOSPHATES and NO PHOSPHONIC ACIDS to the water. Follow the instructions on your filter cleaner product. It is recommended to keep a second filter or set of filters that can be rotated out during the cleaning process. It is important to let filters dry naturally which extends the life of the filter.

IMPORTANT POINTS TO REMEMBER

- Y The appropriate power setting for your system will depend on how often you use your spa. A spa with a higher-than-average bather load will require a higher setting (7-9 usually). This simply means that the system needs to produce more bromine to maintain the level between 3 and 5 PPM/mg/L.”
- Y **WARNING:** heavy spa usage and higher temperatures may require higher bromine output to maintain proper free available bromine residuals.
- Y If additional bromine is required due to heavy bather loads, use a suitable spa sanitizer to maintain an appropriate bromine residual in the water.
- Y It is important for all spa users to shower before entering the spa to minimize contaminants: phosphates, deodorants, sprays, oil, skin flakes, hair, etc.
- Y For the occasional heavy bather load press the “BOOST” key instead of adjusting the setting.
- Y Sodium Bromide does not evaporate or deplete from usage. NaBr levels will reduce from your spa because of water carry out and splash out. If bromine production becomes a question, test for Sodium Bromide level to ensure the NaBr levels are adequate.
- Y With the Genesis BLU FUSION System, draining and cleaning the spa is recommended at least once per year. The number of days between COMPLETE SPA DRAINAGE is equal to the volume of spa water in litres, divided by 10 times the maximum number of daily spa users. Follow the start up instructions.
- Y It is good spa management to test the bromine level in spa water daily and always before spa use. Check the expiry date of the test kit as test results may be inaccurate if used after that date.
- Y For SAFETY reasons it is very IMPORTANT to test the bromine level *before* spa use. Testing after using the spa will give you a lower bromine reading. The system goes back to work over the next 24 hours of circulation and brings the bromine level back to normal.
- Y Maintaining high salt and bromine levels above recommended range can contribute to corrosion of pool or spa equipment.



- Y **NON-USE of Spa:** If the spa will not be in use for an extended period of time, lower the power setting to ½ the normal setting you've used to prevent elevated bromine levels.
- Y The system only creates bromine when the circulation pump is “ON”.
- Y The system controller should only display LED readout during low-speed circulation. When the display is visible, bromine is being produced.
- Y Only use a Non-Chlorine Shock when shocking the spa, and **NEVER USE CHLORINE OF ANY KIND IN A SPA OR HOT TUB.**
- Y If phosphates are present do not drain your spa and start over, as phosphates may still be present. Add a phosphate remover and let the spa circulate for 24 hours. **Remove the phosphates by thoroughly cleaning the filter.**
- Y Clean the filter thoroughly every 30 days.
- Y The life expectancy of the electrolytic cell is 2 years under normal use conditions. When replacing the cell, only use replacement cells having a label that clearly states that it is a replacement cell for the Genesis BLU FUSION device, REGISTRATION NUMBER 30525, *PEST CONTROL PRODUCTS ACT*.
- Y DO NOT add spa chemicals directly to the skimmer. This may damage the cell.

- Y People with a medical condition should consult a physician before entering pool or spa water.
- Y Maximum spa water usage temperature is 40°C. Bathing in spa water at 40°C should not exceed 15 minutes.

How and when to add Genesis TRU BLU Salt (NaBr Sodium Bromide):

BLU FUSION uses Genesis TRU BLU Salt, a 98% pure, granular SODIUM BROMIDE. It should be **added at a rate of 143 g per 100 Litres or (1.2 pounds per 100 US gallons) of spa water at start up**. The ideal Sodium Bromide level is 1300-1500 PPM/mg/L. Be careful not to overdose the spa at start up. Remember: It is much easier to add salt than to remove it.

NOTE: Sodium Bromide does NOT evaporate or deteriorate. It remains stable in solution in spa water. The bromine production is a perpetual cycle in relationship to your NaBr.

TESTING YOUR WATER FOR NABR SODIUM BROMIDE

In order to ensure that the Sodium Bromide level in the spa is at the correct level, use the Sodium Bromide test kit (provided). See illustration below:



This test is not instant and will take a few minutes... The ideal Sodium Bromide level is 1300-1500 PPM/mg/L.

SODIUM BROMIDE IS NOT BROMINE; IT IS SIMPLY BROMIDE SALT!

YOU CAN NOT TEST FOR BROMINE WITH A TRU BLU TEST KIT.



Use a BROMINE TEST KIT to test bromine levels in your spa!



Intelligent Controller Codes for BLU FUSION Automated Bromine Generator

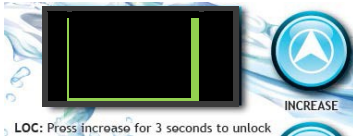


LC (Low Conductivity) will appear when the unit detects that the conductivity is below the minimum level. At start-up, you will experience this if you have not added the Sodium Bromide. Check the Sodium Bromide level in the water and add the appropriate amount per your spa. If the NaBr level is correct, the cell may be experiencing scaling. In this case, you will want to clean the cell. Please consult with your spa dealer for further information. (See pg. 12)

bst (Boost) will appear when the BOOST feature is on. Depressing this key once will increase the bromine production to twice that of the last bromine production setting for the next *accumulated eight hours of pump circulation time*. The BOOST cycle should be depressed after heavy bather load or usage.

OE (Open Element) will appear if the system controller is unable to detect a connection to the electrode cell. You may see this if the electrode is not connected properly, there is inadequate water flow, or the cell is not functioning due to unknown circumstances. This may require that the cell be evaluated and possibly cleaned of scale build-up or even replaced. If this happens, please consult with your spa dealer.

HC (High Current) will appear when the TDS (Total Dissolved Solids) is too high resulting in High Current at the electrode cell. If this reading appears at or near start up of your system, check your source water for TDS and proper NaBr readings. If this reading appears after an extended period of operation, draining 25% of the water and refilling can help reduce TDS levels. If "HC" remains present, consult with your spa dealer for a comprehensive water analysis and recommended course of action.



LOC: Press increase for 3 seconds to unlock

LOC (Locked) Your BLU FUSION TopSide controller includes a "LOC" feature which ensures that the system is "Locked" when not being utilized to manage your Spa's water. Your system will automatically produce bromine when necessary. This feature is simply for your protection. In order to "Unlock" your BLU FUSION, simply depress the "increase" key on your unit for 3 seconds.



Checking for “Conductivity” on your Genesis BLU FUSION Unit

The system has an integrated feature which allows you to test the conductivity at the electrode from your controller. If you're not getting a Bromine reading in your spa, this can be helpful in determining the cause. To do this, hold down the "increase" and "decrease" buttons together for 3 seconds. If your conductivity reading falls to within 0.6 - 1.5, you have good conductivity at the electrode and are producing bromine. If you're in this range and cannot get a bromine reading, check your water for phosphates or consult your local pool or spa professional. If your conductivity is low, check the salt level in your spa to confirm that you have the correct sodium bromide level: 1300-1500 PPM.

Cleaning the Electrode Cell

On occasion, it may become necessary to clean the electrode cell. In order to clean the electrode cell, lower your pH to 6.0 using a "pH down" product from your local pool and spa dealer. After doing this, dose the spa with scale remover following the instructions on the bottle. This may need to be done more than once to ensure effective cleansing. Consult BluWater Technology if there are any questions about this process. Make CERTAIN to adjust pH back to normal range after completing this process. If electrode is not sufficiently cleaned, remove the electrode from the spa and clean more thoroughly. Contact BluWater Technology for instructions to complete this process.

Quick Reference Dos and Don'ts

Dos

- Water chemistry is critical to the performance of your spa and will ensure your best possible spa experience.
- Monitor your bromine levels at spa start-up and until you reach your maintenance level.
Always pay close attention to your water chemistry including Bromine levels.
- Clean the filter every 30 days!
- Fill your spa with a carbon-based pre-filter, we recommend Pure Fill brand.
- Shower before entering your spa in order to reduce contaminants such as soaps, perfumes, phosphates, skin cells, etc. This is very important for spa cleanliness.

Don'ts

- Don't ever use Sodium Chloride or ordinary table salt in your spa; only 98 % Sodium Bromide.
- Don't ever use chlorine in your spa. Use only *non-chlorine* shock.
- Don't ever fill your spa from a residential water softener.
- Don't ever think your spa is 100% maintenance-free (no spa is).
- Don't forget to read this manual, not just the quick reference.



Appendix I: Glossary

Bather Load- *The number of people using the spa combined with how long it is being used and the frequency of use.*

Bromine- *Swiftly eliminates the presence of organic matter left behind by spa users (e.g. oils, sweat, skin cells).*

(CH) Calcium Hardness- *Describes the concentration of calcium in your water.*

(NaBr) 99%- *Sodium Bromide salt.*

Organic Matter- *Substances that are left behind when using your spa. This includes such things as oils, dead skin cells, sweat, etc. that serve as fuel for bacteria.*

pH- *It plays an important role in how effective sanitizing chemicals function. It helps with water clarity and ensures that minerals in solution (like calcium) do not precipitate and scale the surface of your spa.*

PPB- *Parts Per Billion = mg per Litre.*

PPM- *Parts Per Million = mg per Litre.*

(TA) Total Alkalinity- *The measure of the ability of a solution such as water to neutralize acids to the equivalence point of carbonate or bicarbonate.*

(TDS) Total Dissolved Solids- *Various inorganic matter present in your water.*



Appendix II: Spa Water Management Spreadsheet

When you first install your Spa, it is very important to understand your water chemistry. Use this tool to track your water. Your spa dealer can test your water and provide the information. You can also conduct your own tests using proper testing equipment.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	90 Days
pH:									
Total Alkalinity:									
Phosphates:									
Calcium Hardness:									

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	90 Days
pH:									
Total Alkalinity:									
Phosphates:									
Calcium Hardness:									

Quick Troubleshooting your Bromine level

- How many hours is the spa circulating? (Minimum of 8 hours)
- What is the power setting on the controller?
- What is the Genesis TRU BLU Salt (NaBr) level? (1300-1500 PPM)?
- How many gallons of water does the spa hold?
- Check Conductivity at the electrode (0.6 - 1.5)
- Check for contamination! (Phosphates must be 0.00 PPB)
Water source? ("Well" or "City" water?)
- Maintaining proper water chemistry? (pH, alkalinity, calcium hardness)
- Last filter cleaning? (Always make sure you are maintaining a clean filter.)
- How long has the system been in use? (If 3+ years, electrode may need replaced!)



WARRANTY INFORMATION CARD

BEFORE SUBMITTING ANY CLAIM, CONTACT YOUR SPA DEALER WITH QUESTIONS IN ORDER TO ENSURE YOU HAVE COMPLETED APPROPRIATE TROUBLESHOOTING STEPS FOR YOUR BLU FUSION UNIT.

**Authorized Dealer
where purchased:**

Contact:

Telephone:

**Date of
purchase:**

**Spa
Brand:**

System install:

Pre-Installed _

After Market _

**Start up Water
Chemistry:**

pH: _

Total Alkalinity: _____

TDS: _____

Calcium Hardness: _

Metals: _

Phosphates: _

Were you provided bromine test strips?

Yes

No

Were you provided Tru Blu test strips?

Yes

No

Did you fill your spa with municipal or well water? Well _ **City** _

Comments:

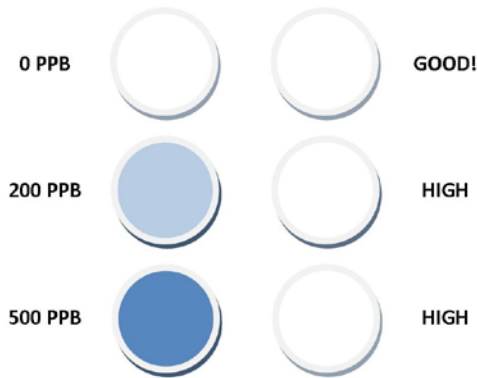
Questions? Contact you Dealer.

You may also contact Tech support at 1 855-447-8772 or visit us online at www.bluwatertechnology.com

For all warranty issues, concerns, or claims, make certain that this form is complete in its entirety and submitted with your system.



PHOSPHATE TEST



1. Rinse test vial, then fill to near top of the vial (approximately 2 cm from top)
2. Empty one powder packet into vial. Cap the vial and shake gently for one minute until the powder is dissolved.
3. Remove cap and compare to chart as shown within 2 minutes. Hold the vial straight up on the color chart (chart should be flat on table) and compare to colors. Look down through the vial as shown in example.

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