

# THE GENESIS DEVICE

## AUTOMATIC BROMINE GENERATOR

VIDEO AVAILABLE AT [WWW.LIFESPAS.COM/BROGEN.HTML](http://WWW.LIFESPAS.COM/BROGEN.HTML)

### **The GENESIS Device**

- Converts Sodium Bromide (NaBr) into Bromine. Then back to Sodium Bromide completing the perpetual treatment cycle.
- Quarterly draining is a thing of the past, usually one time a year is all that is necessary with the GENESIS Device.
- GENESIS makes spa easier to maintain & less expensive to operate.
- With GENESIS the water is always clear and inviting.
- With GENESIS the water is softer and gentle to your skin with less eye irritation.

### **Bromine is the #1 Choice for Sanitizing Spas**

- Chlorine evaporates at 97 degrees and most hot tubs are kept at 104 degrees making Chlorine ineffective for spa use.
- Ozone creates a harmful gas that is corrosive to heaters, covers and jets.

### **The Alternative – Traditional Bromine Sanitation**

- Aggravating Bromine floater.
- Expensive maintenance chemicals
  - Bromine Tables. Weekly Shocking, Clarifiers, De-Foamers, De-Scummers.
- Requires quarterly draining because of the binders and bi-products of Spa maintenance chemicals.
- Aggravating handling, purchasing, transporting and storing of chemicals.

### **GENESIS WATER TREATMENT**

In the past before GENESIS, spa owners were forced to check water chemistry on a weekly basis. Checking Ph, Alkalinity and Bromine. Before GENESIS when checking for Bromine and there wasn't any, you added more Bromine or Bromine tablets, masking any water quality issues. With GENESIS you don't mask water quality issues, you simply correct your water chemistry, add Tru-Blu (Sodium Bromide) as directed, turn the GENESIS on, and it creates Bromine perpetually.

### **EXACTLY HOW THE SYSTEM WORKS!**

It's a very simple process. First you add 2 lbs of Sodium Bromide for every 100 gallons of water added to your spa. Sodium Bromide is the kissing cousin of table salt. As the water circulates throughout your plumbing it comes in contact with a Bromine generating cell that converts the Tru-Blu (Sodium Bromide) into Bromine, sanitizing your spa.

### **THE SAVINGS WITH GENESIS**

GENESIS does not require the expensive maintenance chemicals that ordinary spas require. The need for transporting and adding harmful sanitizing chemicals is gone, because there are no added bi-products there is no need to drain your tub every three to four months wasting hundreds of gallons of water. The GENESIS saves you time and money by eliminating the job of maintaining a spa. It is all done for you by the GENESIS Device.

# GENESIS START-UP INSTRUCTIONS

1. Test the TDS (Total Dissolved Solids) from the source of water you are filling the tub with. Optimum reading should fall between 200 ppm's to 500 ppm's. If TDS reading is higher than 500 ppm's then a metal remover or Carbon block Spa Prefilter should be used to reduce TDS. Well water or non-municipal sources of water are typically high in TDS. Salt water softeners will also contribute to high TDS.
2. Fill the tub and balance the Ph., Alkalinity, and Calcium hardness. Ph (ideal range 7.2–7.8), Alk. (ideal range 80–120 ppm's), Calcium hardness (ideal range 150-200 ppm's).
3. Add 2 lbs. of TRU-BLU (Sodium Bromide) while jets are running for every 100 gallons of Spa water. Remember; spas are typically over rated in the amount of gallons that are actually added to the spa. For example; a spa that is rated at 500 gallons might only be 450 gallons and should probably use only 9 lbs. or 4 ½ bottles of Tru-Blu. Let the spa circulate for 10 minutes, then take a SODIUM BROMIDE reading. This should read between 7.8-8.0 ppm's. The SODIUM BROMIDE Test Strips are reading for “SODIUM BROMIDE” (Salt) not Bromine.
4. Check your TDS. This should come in at 2300 ppm's to 2700 ppm's. (If using a TDS meter; ensure that you allow enough time for the meter to calibrate. Allow up to one minute for TDS meter to adjust to the water temperature.
5. Ensure the Spa-filters are clean, set the GENESIS to a power setting of 10, and set the daily circulation time to a minimum of 8 hours per day. (24-hour circulation pumps are fine).
6. Remember; GENESIS only builds bromine during low speed circulations. The lights or power on the GENESIS will only appear during these times. The unit will have a “+” or “-“ sign to the left of the power setting (1-10) and will reverse every 4-6 minutes. This is normal as the power to the electrode is reversing polarity to prevent scale build up.
7. After 24 hours the tub should have established a “Bromine” bank. The water should be tested with preferably a liquid or paper test kit for “Bromine” at this time. If the tub has not established Bromine then please refer to trouble shooting the GENESIS. Every spa is different and every spa owner will use their spa differently. As a new spa owner the demand for “Bromine” is usually higher than a veteran spa owner. Therefore, the GENESIS will probably require a higher power setting initially and will need to be adjusted accordingly.

**For further assistance please contact Pioneer H2O (877) 569-4377**