



LANDI POOLS & GAMES

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INSTRUCTIONS FOR SPA USE

1. GENERAL INSTRUCTIONS

- A. Drain your spa a **minimum** of 4-6 times a year depending on usage. We recommend investing in a small submersible pump, which is the perfect tool for the job. Alternatively, you may use your hot tub's drainage spigot – see owner's manual for location and further instruction.
- B. Keep a second set of filter cartridges on hand to ensure no downtime!
- C. Do not use any petroleum based products to clean spa or spa cover. Do not use dish detergent or anything caustic to clean spa or cover.
- D. Use Clean & Perfect to clean cover and spa surfaces. Soak your filter cartridges in a degreaser such as *Filter Perfect* or *Filter Cleanse* (available at Landi Pools & Games) at least once a year for optimal performance and longevity of the filters – just follow instructions found on the label.

2. RE-FILLING YOUR SPA

- A. To re-fill your spa, simply place your garden hose inside the filter compartment area and bring water level up so that all the jets are covered. Your Owner's Manual will instruct you if there is a specific fill pipe location on your model. In most cases, you will not need to bleed air from the spas. On the chance that the spa should become air-bound, shut off breaker and loosen the locknut in front of the pump housing. Once air has been expelled, tighten the locknut. Certain spas brands have air bleed valves - refer to your Owner's Manual to see if this applies to your specific model.
- B. Turn your breaker on.
- C. Balance your Water Chemistry to recommended ranges. (See Below)

3. WATER BALANCING*

- A. Ideal chemical ranges: Bromine 2.0 – 3.0
PH 7.2 – 7.8 (7.4 – 7.6 Ideal)
Alkalinity 80 – 120
Calcium Hardness 150 – 200

B. Balancing Chemicals when Refilling:

1. Add a Metal Sequester (Spa Stain and Scale Control) at the rate of one ounce per 100 gallons of water. This can be added directly to the spa while it is filling. **Be sure to turn on your spa jets before adding ALL other chemicals.**
2. Following chart below: Add Alkalinity Increaser to raise alkalinity based on your PPM reading.

Gallons	PPM (Measurements in TBSP.)				
	20	40	60	80	100
200	1.5	3.0	4.0	5.0	6.5
400	2.5	5.0	8.0	10.5	13.0
600	4.0	8.0	11.5	15.5	19.5
800	5.0	10.5	15.5	20.5	26.0

3. Test water the next day to check Alkalinity reading. If alkalinity is low, add Alkalinity Increaser according to chart. If it is high, do nothing for now. Once your alkalinity level reaches ideal range, check your PH level. If low, add PH Increaser according to chart on back of bottle. If it is high, do nothing for this week. It should adjust itself down in a few days. If PH is still high in a week, add PH Decreaser according to chart on back of bottle.
4. Adjust Calcium Hardness according to your water test. Mix this chemical in a bucket of cold water to pre-dissolve first, then add directly to the spa. **Always add water to bucket first, then chemical.**

5. Add 1 tsp. per 200 gallons of “One-Step” Brominating Concentrate directly to spa.
6. Fill Floater with Bromine Tablets – use 1 tablet per 100 gallons of spa water. If using Spa Frog, set mineral cartridge at 6 and bromine cartridge at 5. Insert in automatic chemical feeder (Caldera Vacanza Series models).

C. WEEKLY CHEMICAL BALANCING*

1. Test water. Look for ideal readings.
2. Adjust Alkalinity and PH as needed.
3. Refill your Bromine Floater (1 tablet per 100 gallons of spa water).
4. Add 1 ounce of Spa Perfect AKA Cleanse Weekly per 100 gallons (1/2 Cup per 400 gallons). Bromine level should be below 5ppm before adding this product.
5. If Bromine is low – add 1 tsp. per 200 gallons of “One-Step” Brominating Concentrate or 4 tsp per 200 gallons if super oxidation is needed (i.e. following a Hot Tub party or if Bromine level is reading at 0ppm)
If Bromine level is fine – add 2 Tablespoons (2 ounces) of Oxidizing Shock per 400 gallons.
6. When using Spa Frog system, check and replace the bromine cartridge every 2-4 weeks as necessary. Mineral cartridges are replaced every 4 months, and activate new mineral cartridges by adding a Spa Frog Jump Start packet.

4. SAFETY FEATURES

- A. Your spa will turn off and throw the breaker if the spa temperature goes above 104 degrees. Should this happen, reset your breaker, remove your cover and add cold water. Spa should automatically turn on after spa temperature drops below 104 degrees.
- B. Your spa will turn off after approximately 15 - 20 minutes of use. You may turn it back on if you so desire.
- C. Your spa blower will turn off after approximately 10 - 15 minutes. You may turn it on if you so desire. Sometimes you need to give it a few minutes before it will turn back on.
- D. In the event of a power outage, your spa should turn on automatically. If it does not or your control panel is scrambled, try resetting your breaker.
- E. In the winter months, *if* your spa is equipped with the Standard and Economy-operating mode, and your spa is outdoors, leave it in the Standard setting. This will prevent the water temperature from dropping drastically. When in the Standard mode, should the water temperature drop below what you set, the heater will turn on. In the Economy mode, should the water temperature drop below what you set, the heater will turn on only during one of the filtering cycles. Please refer to your Spa Owner’s Manual to see if this applies to your specific model.

***Leave cover open for 10-15 minutes after any chemical additions to your spa.**