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## New Start-Up / Draining and Refilling

### Draining Hot Tubs and Swim Spas:

Pour 1/2 bottle of **ecoone PIPE cleaner** into the spa water. Run jets on high for 1 hour and drain. This removes biofilm build-up on pipes and plumbing that may accumulate during months of use or flush manufacturing residue. Continue steps below.

### Filling and Refilling Hot Tubs and Swim Spas:

1. Clean the shell of your spa using **ecoone SHELL Cleaner**. It's all natural and will not foam.
2. Fill your spa using the **ecoone HOSE filter**, removing organic and ionic metal contaminants, ensuring purified water goes into your spa. Works with city or well water, hard or soft.
3. Heat water to operating temp. Add 1 capful of Star Plus granules for a hot tub and 2 capfuls for swim spas. Turn on jets and blowers, allowing water to circulate with cover open. PDC® Spas hot tub models feature EverPure™ ozone and EverPure 2™ with all swim spas and selected hot tubs allowing for less dichlor needed for sanitation. Depending on use and unit size, it is recommended 2X a week for hot tubs with EverPure™ and 1X a week for hot tubs and swim spas with EverPure2™ systems. With jets and blowers running, add one bottle of **ecoone SPA Monthly** directly to spa water. Let it circulate for 15 minutes with the cover off.
4. Check pH and alkalinity and adjust as necessary.
5. Add one bottle of **ecoone SPA Monthly** to spa water. Let it circulate for 10 minutes with cover open. Hot tubs and swim spas should maintain a balance of pH and alkalinity with this monthly treatment assuring crystal clean water with little to no addition of harsh balancing chemicals.

### Hot Tubs and Swim Spas In Operation:

You don't need to empty your spa to start using the **ecoone** system. Our products were created to be compatible with most sanitizers and systems using dichlor. It is not recommended using biguanide or trichlor with ecoone or as a sanitizer on any level. They are intended for pool use only.

1. Remove and clean spa filter using **ecoone FILTER cleanser**. Rinse spa filter with a hose to remove loose dirt. Immerse spa filter in bucket with warm water and 2 capfuls of cleanser. Agitate filter to loosen dirt and contaminants. Allow filter to soak for 30 minutes; gently rinse with hose. Replace in hot tub or swim spa per manufacturer's instructions.
2. Add 1 capful of **Star Plus granules** for a hot tub and 2 capfuls for swim spas. Turn on jets and blowers, allowing water to circulate with cover open. PDC Spas hot tub models feature EverPure™ ozone and EverPure 2™ with all swim spas and selected hot tubs allowing for less dichlor needed for sanitation. Depending on use and unit size, it is recommended 2X a week for hot tubs with EverPure™ and 1X a week for hot tubs and swim spas with EverPure2™ systems. With jets and blowers running, add one bottle of **ecoone SPA Monthly** directly to spa water. Let it circulate for 15 minutes with cover off.
3. Check pH and alkalinity levels and adjust as necessary.
4. Add one bottle of **ecoone SPA Monthly** to spa water. Let it circulate for 10 minutes with cover open. Hot tubs and swim spas should maintain a balance of pH and alkalinity with this monthly treatment assuring crystal clean water with little to no addition of harsh balancing chemicals.

### Helpful Tips!

- **Always use a sanitizer and maintain proper sanitizer levels.** Bacteria thrive in warm water environment.
- **Maintain water level.** Water should be 3" above filter intake. Low water levels may lead to cloudy water. Use **ecoone HOSE filter** to top off/fill spa.
- **Clean your filter!** The ecoone system relies on filtration. Cleaning the filter prevents contaminants from returning into the spa water.
- **Never use household cleaners to clean a spa or spa shell.**
- **Use test strips included in your ecoone kit.**  
**pH range:** 7.2 - 8.2/**Alkalinity** 80 - 120/**Hardness** 200+  
**Sanitizer level:** This reading should be disregarded as dichlor is used as a shock agent and not a residual. The ozone and UV-C EverPure™ and EverPure 2™ systems purify and sanitize regularly.
- **Never use trichlor** - it is intended for pools only.



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## Spa Care Program

(for brand new spas or draining/refilling spas)

Brand new spas should be filled and cleaned before starting **ecoone** as spa manufacturer's "wet testing" may have caused build up of mold or other contaminants in the pipes. Fill spa, pour 1/2 bottle of **ecoone PIPE cleanser**, run jets on high for 1 hour and drain. Then follow steps below.

1. Clean the shell of your spa using **ecoone SHELL cleaner**. It's all natural and will not foam. Never use household cleaners to clean your spa shell, as it may damage spa plumbing and void spa manufacturer's warranty.
2. Fill spa using **ecoone HOSE filter**. Our hose filter removes organic and ionic metal contaminants, ensuring purified water goes into your spa. Works with city or well water, hard or soft.
3. Heat water to operating temperature. Add one capful of **Star Plus granules** for every 250 gallons of water. Turn on jets and blowers, allowing water to circulate. Check pH and alkalinity and adjust as necessary.
4. Add one bottle of **ecoone SPA Monthly** to spa water. Let it circulate for 10 minutes.



## Quick Start Program

(if using existing spa water)

You don't need to empty your spa to start using the **ecoone** system. Our products were created to be compatible with most other sanitizers and systems such as chlorine, bromine, ozone, cartridges and dichlor. However, we do not recommend using biguanide or trichlor with ecoone.

1. Remove and clean spa filter using **ecoone FILTER cleanser**. Put spa filtering bucket with warm water and 2 capfuls of cleanser. Swish filter to loosen dirt and contaminants. Allow filter to soak for 30 minutes. Gently rinse.
2. Sanitize as usual. If using **Star Plus granules**, add 1 capful for a hot tub and 2 capfuls for a swim spa. Check pH and alkalinity levels and adjust as necessary.
3. With jets and blowers running, add one bottle of **ecoone SPA Monthly** directly to water. Let it circulate for 10 minutes. Check pH and alkalinity levels again.

One bottle once a month helps keep spa water crystal clear and skin soft.

**Star Plus granules** sanitizer dissolves in water. Just pour in and you're done.



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## Troubleshooting

### CLOUDY WATER

A culprit can be a dirty filter. Check the following:

- Clean filter cartridge. Use **ecoone FILTER cleanser**.
- Shock spa with preferred sanitizer or **Star Plus granules**.
- Increase filtration cycle.
- Increase sanitizer level.
- Check pH (7.2-8.2 and alkalinity (80-120).
- Add one bottle of **ecoone SPA Monthly** once a month.
- Clean spa cover with a vinyl cleaner, rinse cover.

### FOAMY WATER

Caused by the introduction soaps/detergents into the system.

- Recommend thoroughly rinsing bathing suit and yourself off before entering the spa.
- Follow cloudy water solutions.
- Discontinue use of other filter cleaning products except for **ecoone FILTER cleanser**, which is non-foaming.
- Run spa jets and blowers on full, scoop out foam.
- Don't use household cleaners, soap or detergents to clean spa.

### GREEN WATER

Can be caused by a spa that has not been covered properly or excessive copper in the water (especially if using well water).

- Shock spa with **Star Plus granules**; allow 24 hours for product to work; then clean filter.
- If excessive copper is the case, we recommend either draining and refilling the spa or using a product such as "metal be gone" and cleaning the filter. Refill using **ecoone HOSE filter** as it removes ionic metal (including copper) and other contaminants.

### BROWN/BLACK OR ORANGE WATER

Usually caused by dissolved iron in water. Follow guidelines under "Green Water". We recommend draining and refilling spa using **ecoone HOSE filter**, which removes organic and ionic metal contaminants from the water.

### ITCHY SKIN/RASHES

- Shock spa using **Star Plus granules**. Allow 24 hours for product to catch up. Clean filter using **ecoone FILTER cleanser**. Check pH and alkalinity levels; adjust as necessary.
- With jets and blowers running, pour one bottle of **ecoone SPA Monthly**. Allow to circulate for 10 minutes.
- If problem persists, you may have a skin issue that requires medical attention. Most ecoone users find that, when used as directed, ecoone solves their itching and skin irritations.

Note: **DO NOT** under sanitize you spa.