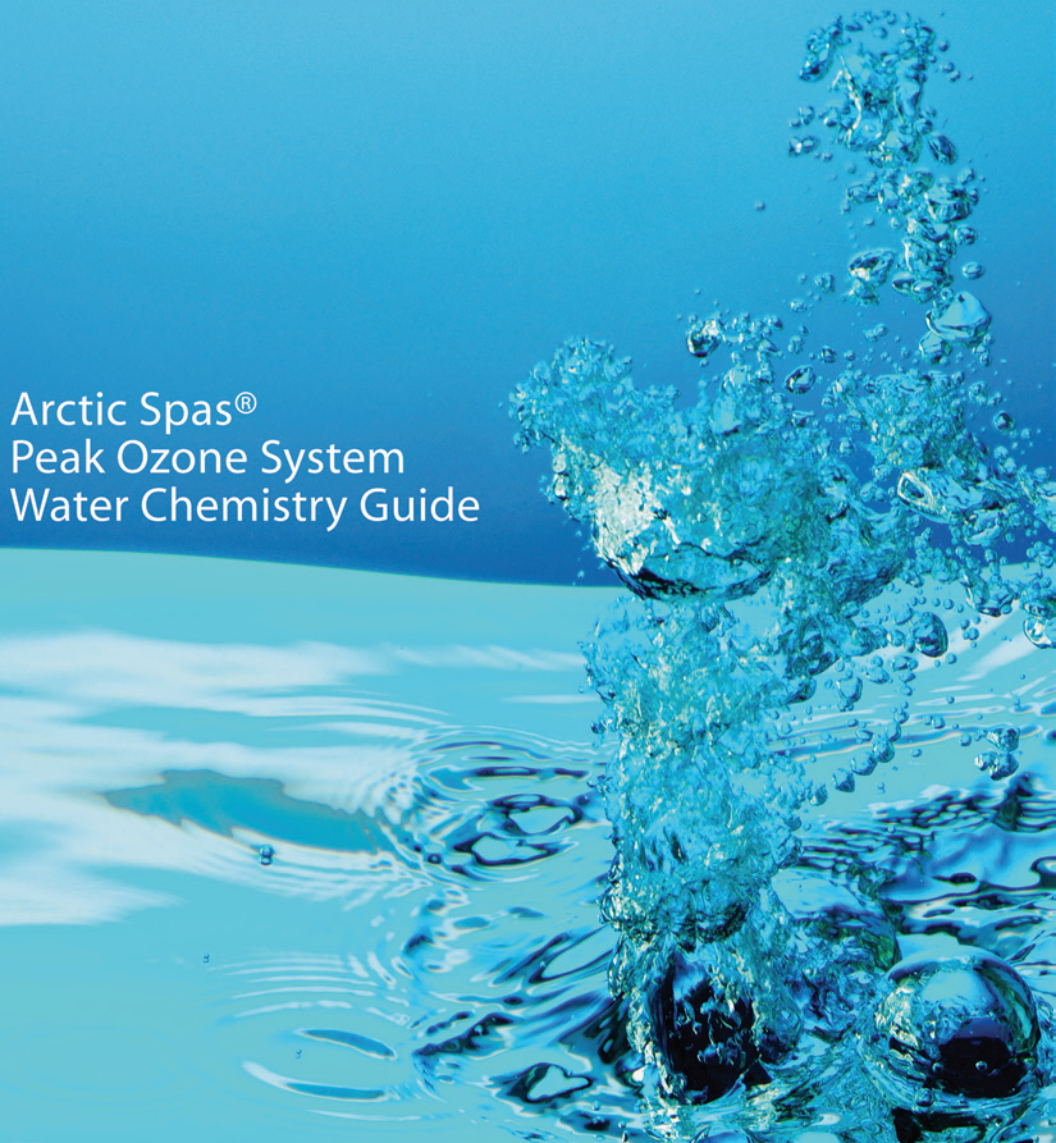




Arctic Spas®  
Peak Ozone System  
Water Chemistry Guide



## INTRODUCTION

Congratulations... You have invested in the most effective water purification system in the spa industry, available only with Arctic Spas. Ozone is perhaps nature's most powerful purifier. It is widely used to purify drinking water, because it is pH neutral, chelates metals, and oxidizes contaminants quickly, with no residual chemicals remaining in the water. Managing your water chemistry has never been easier.

The really great thing about using ozone to help treat spa water, is that it is automatic. There are just a few simple steps that, if followed correctly, will ensure years of trouble-free enjoyment from your Arctic Spa. This guide is designed to give you some basic direction in managing your water chemistry with the the Peak Ozone System.

## SPA MAINTENANCE WITH OZONE

Maintenance is the same as if you were using chemicals, except with ozone you will use less chemicals and it will require less time. Remember to test, balance, sanitize, filter and change the water, as usual, according to the owner's manual.

**Note:** With Peak sanitization levels may be lower. **This is Okay!**  
We recommend:

Free Chlorine: 1.0 ppm

Bromine: 1.0 - 2.0 ppm

You need to decide whether on using a bromine or chlorine sanitization system. Both are available in tablet and granular forms, and your maintenance schedule will vary slightly depending on which you use. We recommend using **Peak Boost...**

## RECOMMENDED TREATMENT (Peak Boost Bromine System)

Peak Boost is recommended for use with your Peak Ozone System. The new **Peak Boost** formulation is a one (1) part system, which does not require dosing with Refresh to activate the Bromine sanitizer.

### START-UP STEPS

1. Fill your spa with fresh water.
2. The peak system will automatically start operating when the spa is powered up.
3. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
4. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
5. Allow spa to heat to 30°C (85°F).
6. Add 30 g of **Peak Boost** per 1,000 litres (1 oz. per 250 gals.)
7. Test for bromine after 15 minutes of circulation. Bromine should read between 3 - 5 ppm.

### WEEKLY TREATMENT

1. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
2. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
3. Add 30 g of **Boost** per 1,000 litres (1 oz. per 250 gals.)
4. Test for bromine after 15 minutes of circulation. Bromine should read above 3 - 5 ppm.\*

\* After heavy use (3 or more people in the spa for more than half an hour), the spa should be sanitized by adding 30 grams of **Peak Boost** per 1000 litres (1 oz. per 250 gals.) of water.

## ALTERNATIVE TREATMENT (Tablet Bromine System)

**Sanitize B** Bromine tablets are acceptable for use with your Peak Ozone System. Follow the steps below:

### START-UP STEPS

1. Fill your spa with fresh water.
2. The peak system will automatically start operating when the spa is powered up.
3. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
4. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
5. Allow spa to heat to 30°C (85°F).
6. Add 30 g of **Peak Boost** per 1,000 litres (1 oz. per 250 gals.)
7. Test for bromine after 15 minutes of circulation. Bromine should read between 3 - 5 ppm.
8. Fill your floating tablet dispenser with bromine tablets, open to 3, and place in water.

### WEEKLY TREATMENT

1. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
2. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
3. Add 60 g of **Refresh** per 1,000 litres (2 oz. per 250 gals.)
5. Test for bromine after 15 minutes of circulation. Bromine should read above 1 -3 ppm.\*

\* After heavy use (3 or more people in the spa for more than half an hour), the spa should be sanitized by adding 30 grams of **Peak Boost** per 1000 litres (1 oz. per 250 gals.) of water or 60 grams (2 oz. per 250 gals.) of **Refresh** per 1000 litres of water for a bromine system, to rid the water of excess contaminants.

## RECOMMENDED TREATMENT (Boost Chlorine System)

**Boost** is acceptable for use with your Peak Ozone System. The **Boost** formulation is a granular chlorine system.

### START-UP STEPS

1. Fill your spa with fresh water.
2. The peak system will automatically start operating when the spa is powered up.
3. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
4. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
5. Allow spa to heat to 30°C (85°F).
6. Add 15 g of **Boost** per 1,000 litres (1/2 oz. per 250 gals.)
7. Test for chlorine after 15 minutes of circulation. Chlorine should read between 0.5 - 1 ppm.

### WEEKLY TREATMENT

1. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
2. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
3. Add 15 g of **Peak Boost** per 1,000 litres (1/2 oz. per 250 gals.)
4. Test for chlorine after 15 minutes of circulation. Chlorine should read above 0.5 - 1 ppm.\*

\* After heavy use (3 or more people in the spa for more than half an hour), the spa should be sanitized by adding 15 grams of **Boost** per 1000 litres (1/2 oz. per 250 gals.) of water.

## ALTERNATIVE TREATMENT (Tablet Chlorine System)

**Sanitize C** Chlorine tablets are acceptable for use with your Peak Ozone System. Follow the steps below:

### START-UP STEPS

1. Fill your spa with fresh water.
2. The peak system will automatically start operating when the spa is powered up.
3. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
4. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
5. Allow spa to heat to 30°C (85°F).
6. Add 15 g of **Boost** per 1,000 litres (1/2 oz. per 250 gals.)
7. Test for chlorine after 15 minutes of circulation. Chlorine should read between 0.5 - 1 ppm.
8. Fill your floating tablet dispenser with chlorine tablets, open to 2, and place in water.

### WEEKLY TREATMENT

1. Test the total alkalinity. The ideal range is 80 - 150 ppm. Adjust with **Perfect Balance** or **Adjust down**.
2. Test the pH. The ideal range is 7.2 to 7.6. Adjust if necessary with **Adjust Up** or **Adjust Down**.
3. Add 30 g of **Refresh** per 1,000 litres (2 oz. per 250 gals.)
4. Test for chlorine after 15 minutes of circulation. Chlorine should read above 0.5 - 1 ppm.\*

\* After heavy use (3 or more people in the spa for more than half an hour), the spa should be sanitized by adding 15 grams of **Boost** per 1000 litres (1/2 oz. per 250 gals.) of water to rid the water of excess contaminates.

## Cloudy Water

**NOTE:** Cloudy water can occur within the first 24 - 72 hours, especially in areas where source water is high in minerals. The reason is that ozone immediately begins to oxidize minerals and contaminants. Other minerals and contaminants are attracted to these partially oxidized particles causing larger particle chains to form. Over time these molecular chains grown in size to become visible.

**Solution: WAIT! - It will clear up with in another 72 hours.**

**NOTE:** If your water is cloudy after 72 hours of a water change, balance water and check sanitization level, filter and filter setting.

If you are having difficulties getting a sanitization reading, there are a couple of easy checks to tell if you are have insufficient sanitization:

1. **Feel** - Dip your hand in the water and run it along the acrylic surface. Then rub your fingers together. Does the water feel slippery or slimy? If so, you have a bacteria build-up which is caused by insufficient sanitization.
2. **Smell** - Does the water smell musty or swampy? Again, this indicates a bacteria build-up, which is caused by insufficient sanitization.
3. Test for sanitization. Do you have any residual sanitizer in the water?

**NOTE:** Ozone does not eliminate the need for a sanitizer - varying amounts, dependant on bather use, of chemical sanitization will be necessary.

**NOTE:** If you have insufficient sanitization follow the same procedure used after heavy use.



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