



NatureChlor

NatureChlor+

NatureChlorMAX

Operating Instructions

CONTROLOMATIC

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<https://www.controlomatic.com/registration>

Made in the USA



@naturechlor

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Introduction

NatureChlor is a semi-automated, saltwater chlorine generation system specifically designed to make high-value hypochlorous acid (HOCl) efficiently. NatureChlor generates chlorine from a small amount of ordinary, non-iodized salt (Sodium Chloride, NaCl) dissolved in the water. It's about 90% less concentrated than ocean water and is below the typical taste level of most humans. One teaspoon per gallon is all it takes for NatureChlor to produce fresh electrolyzed water.



How does NatureChlor work?

The process is called electrolysis. Applying electrical current to a saltwater solution makes electrolyzed water, and when vinegar is added to regulate pH, the current splits the molecules up into a disinfectant/sanitizer called hypochlorous acid. The resulting solution is non-toxic and works better than bleach.

In a short amount of time, electrolyzed water reverts back to normal water and salt. That time can be a week or two, so it doesn't store well on the shelf at a store. If you want to use HOCl, you generally have to make it yourself. The equipment to do that can be costly, and that is where NatureChlor comes in—a low cost system to make your own.

HOCl looks just like regular water. Since it is a sanitizer and not a soap-based product, it will not lather, make bubbles, or emit a strong smell, as some people may expect. Oftentimes, those effects are from additives to the product, and we are proud to say that our recipe does not include any of those extra chemicals—the only ingredients to make HOCl are water, salt, vinegar, and electricity.

Applications of HOCl include, but are certainly not limited to:

- Anything you need sanitized
- Anything you need cleaned
- Kitchen utensils and cooking surfaces
- Kitchen and bathroom surfaces/floors
- Hot tubs, spas, and swimming pools
- Hospital bedding
- Shoes before entering the house
- Grocery store shopping carts
- Fruits and vegetables
- And many more!

Precautions

- Keep out of reach of children.
- Store salt and potassium carbonate in a dry place.
- Only use plain tap water or purified water.
- Keep the power supply dry, indoor use only.

Operation: Sanitation & Disinfection



Electrolyzed Water for Disinfection and Sanitation

Generates HOCl (hypochlorous acid) measured in ppm (parts per million):

- Add 1 quart of tap water to a tall liquid container.
- Add 1/4 teaspoon salt (NaCl). Do not use iodized salt, only pure salt.
- Add white vinegar, double the amount of salt added.
 - For example: If 1/4 teaspoon salt, then add 1/2 teaspoon vinegar.
- Place the electrode into the container. The electrode should be totally submerged.
- Connect the power supply to the electrode and plug it in.
- Allow to run for 15 minutes.
- Measure the free chlorine and pH level when done. For higher concentrations, leave on longer.
- There is a shelf life, so use within 1 to 2 weeks.

***Important:** The chemical composition of tap water can vary based on location. The amount of vinegar to be added may vary. Always test your solution to ensure pH is at desired level.

***Please View the Production Reference Table on Page 6 for more guidance.**

Notes:

1. Use food-grade NaCl.
2. White vinegar can be liquid or powder and will lower the pH. **The pH should be 7 or less for hypochlorous acid to be the dominant free chlorine type.**
3. Measure the chlorine and pH levels for best results.
4. To make more than a quart at a time, increase the salt level, vinegar, and on time appropriately.
5. Do not add more than 1/4 teaspoon salt per quart since the power supply will not work at higher concentrations.
6. Adjust the water temperature to be around 70 degrees Fahrenheit for best results.
7. Salt, vinegar, spray bottle, and container not included.

Operation: Cleaner & Degreaser

Electrolyzed Water for Cleaning and Degreasing

Substitute salt with potassium carbonate and experience a whole new variation of what NatureChlor can do. Now you have a cleaner and degreaser, which is potassium hydroxide (KOH). KOH is generally recognized as safe (GRAS) by the FDA and works great as a heavy-duty degreaser for kitchen counters, ovens, stovetops, barbeques, and floors. It is a safe, non-toxic, and all-natural solution produced with just water, potassium carbonate, and electricity.

Generates KOH (Potassium Hydroxide)

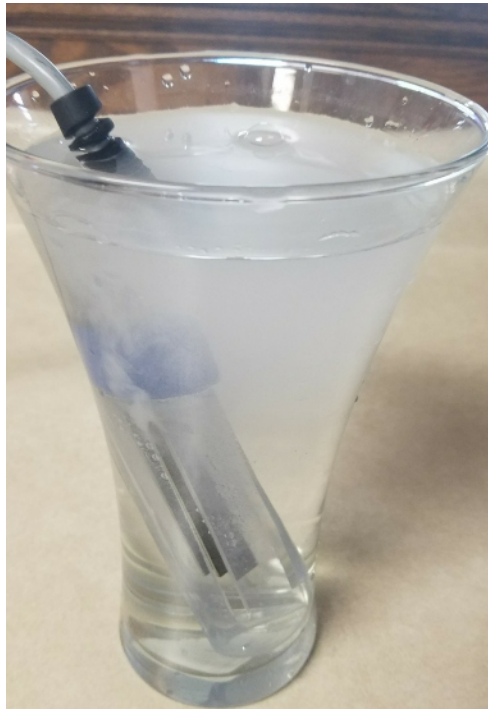
- Add 1 quart of tap water to a tall vase. For NatureChlorMax: a gallon.
- Add 1/2 teaspoon potassium carbonate. For NatureChlorMax: 2 teaspoons if a gallon of water is used.
- Place the electrode into the vase. The electrode should be totally submerged.
- Connect the power supply to the electrode and plug it in.
- Allow to run for 8 minutes, or for more time if a stronger concentration is desired.

Notes:

1. To make more than a quart at a time, increase the potassium carbonate level and on time appropriately.
2. Do not add more than a 1/2 teaspoon potassium carbonate per quart, since the power supply will not work at higher concentrations.
3. Adjust the water temperature to be around 70 degrees Fahrenheit for best results.
4. Potassium carbonate, spray bottle, and container not included.

Electrode Cleaning

Over time, the titanium electrode plates may develop a white calcium coating, which will decrease the efficiency. Simply unplug the power supply from the wall and place the electrode into a tall glass with white vinegar to dissolve the calcium.



Production Reference Tables

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* Run time and results may vary. **Always** test your end solution to ensure desired pH and ppm levels are met.

Thank you!

We are so happy that you have chosen to utilize a NatureChlor product to keep your home, work, and loved ones safe. Together, we can contribute to the improved well-being and safety of ourselves and those around us. If you require any assistance with your product, or would just like to provide some feedback, please feel free to contact us at **support@controlomatic.com**. We value our customers' feedback and utilize it to fuel innovation for continued development of all of our products.

If you enjoy your NatureChlor, please share with your friends, family, and social media, so we can distribute the benefits of NatureChlor all over the world!

