

Tech Talk

11.5 pH Cleansing Water

& 2.5 pH Sanitizing Water



These waters are different and different is GREAT!

In addition to manufacturing the highest quality products in our industry, Enagic is one of the only companies who offer these types of devices with the ability to produce 2.5 pH & 11.5 pH water. To someone unfamiliar with ionization technology having the ability to make these waters may not seem like a big deal, but to those who understand the technology, and the benefits these waters can create, they know it is a huge deal!

These two waters have very special properties and are very unique. The 2.5 pH water produced by the Enagic device is referred to as "Sanitizing Water" and comes out of the bottom hose during production. At the same time, the 11.5 pH water, this is referred to as "Cleansing Water", exits the top hose of the device.

In order for these waters to be produced, they require "electrolysis enhancer fluid", which is nothing more than a saline solution. The enhancer fluid consists of mostly purified water and a small amount of sodium chloride, also known as "table salt". It is this small amount of salt that really makes the difference in the production process, as salt is made up of two critical components necessary to produce these waters. The sodium is needed for increasing the conductivity to make the 11.5 pH water and the chloride is needed for the 2.5 pH water.

During the production of just these two waters, a small amount of the enhancer fluid is injected into the electrolysis chamber, where it combines with the source water and electricity. The 2.5 pH Sanitizing Water has disinfecting properties and can be used to sanitize kitchen utensils, cutting boards and to clean and disinfect in and around the entire kitchen and house. The strong acidic water utilizes the chlorine ions in the saline solution to create Hypochlorous Acid Water. Without the chlorine in the water it would not be able to kill bacteria. The Japanese Electrolyzed Water Association defines strong acidic water to be: pH below 2.7, ORP of +1100 and 20-60ppm of the available chlorine. This simply means that the pH level is less than 2.7; that the positive oxidation reduction potential



is at 1100 or higher; and that there is a presence of between 20 – 60 parts per million of chlorine. The Enagic devices are some of the only consumer water ionizers on the market which are able to make 2.5 & 11.5 pH waters.

The Cleansing Water is also produced at the same time the Sanitizing Water is being made. The 11.5 pH water is excellent for cleaning and degreasing. The Cleansing Water uses the sodium of the saline solution to create a weak sodium hydroxide solution. Sodium hydroxide is a critical ingredient in soaps. Without this ingredient, the water would

not be able to break down and emulsify oils when cleaning. The electrical charge also restructures the water so that it becomes a non-polar solvent, which also allows it to mix with and break down oils.

These waters are unique and special. Between the two of them, they can be used for safe, non-toxic cleaning and degreasing around the entire house. These waters are effective enough that they can replace the traditional chemical based cleaners, which will save money and reduce the risk of chemical exposure or contamination.



Tip:

For the best sanitizing effect, make sure that your 2.5 pH water is fresh. It is most potent when it is made fresh and used immediately. On the other hand, for some unique character of the source water, the 11.5 pH water may be stored for a few days in an air tight, dark container prior to using. This allows the “hardness”, which are mostly calcium minerals, to precipitate out of solution, which will increase the ability of the Cleansing Water to clean and degrease.

*An available chlorine is differed from the man-made chlorine and it is produced during the electrolysis.