

Why is it a latest generation equipment?

DIAMOND
SERIES

osmofilter
Tratamiento Integral del Agua



3-in-1 hydrogenator module

The *first module* is an O3 homogenising and exhaust tank with bacterial anti-contamination system.

The *second module* is a high-power hydrogen generator (up to 1,000 ppb).

The *third module* is the stabilisation and mixing unit, consisting of 7 stages:

- **1st stage:** It is in charge of the mixing by means of the venturi system.
- **2nd to 6th stage:** Mixing coil to increase H2 content in the water.
- **Stage 7:** Water stabiliser with H2.



The most complete
hydrogenated water purifier on the market

General data of the equipment



High concentration of H2
(up to 1,000 ppb).



Separation of O3 for better taste,
odour and antioxidant of water.



Easy installation.



High H2 stability in water.



Direct flow. High power of
hydrogenation.



Latest generation hydrogen module.



The most compact system on the
market.



NSF certified tubing.



External transformer.



1/4" assembly for greater reliability.



NSF certified connections.



Titanium plates of the highest quality.

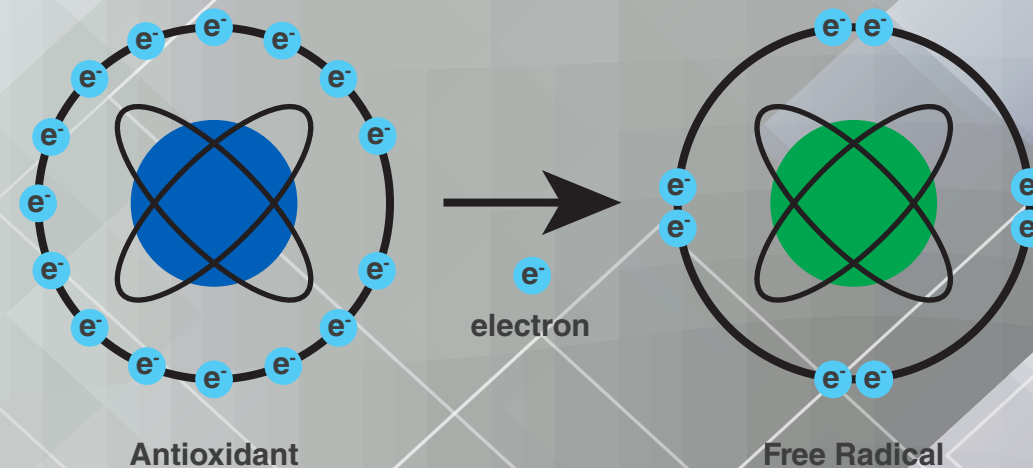


Choice of water outlet via push
button or tap.



High antioxidant capacity.
Between -450 and -580 mV.





WHY DO WE GET OLD?

We oxidise, it is inevitable. Oxygen is essential, but it causes **our cells to oxidise** and as a result of cellular oxidation, **free radicals appear**.

When a cell is oxidised by free radicals, it can die or reproduce with defects, leading to disease and premature ageing.

WHAT IS AN ANTIOXIDANT?

They are **molecules that decrease the destructive action of free radicals**. They can be produced by our organism or substances that come from food.

WHAT IS A FREE RADICAL?

They are **atoms that lack an electron** and try to achieve it by stealing it from a healthy and complete one. When they do, the healthy atom is transformed into another free radical that tries to steal electrons, and so on.

1

2

3

4

WHY DO IT HAPPEN?



Alcoholic beverages



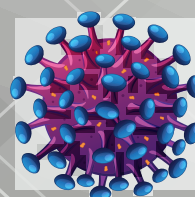
Tobacco



Contamination



Sun and other ultraviolet rays



Viral infections

HOW ANTIOXIDANTS WORK:

Antioxidants have the ability to easily give an electron to these free radicals so that they do **not destroy good cells**.

HOW FREE RADICALS WORK:

The free radical seeks to stabilize by stealing an electron from nearby stable molecules, generating death or disease. This can be avoided by ingesting food or hydrogenated water

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HOW TO SOLVE IT? WITH ANTIOXIDANT FOODS OR HYDROGENATED WATER:

Antioxidant foods are the key for a good health. When consumed frequently, the body has the ability to regenerate itself and prevent premature aging.

There are about 8000 types of antioxidants, although not all act the same way in the body. The most important thing is to provide an amount of antioxidants per day. This entire amount can be obtained with hydrogenated water and H₂Spark.



Tomato



Pepper



Broccoli



Carrot



Avocado



Mango



H₂Spark



Hydrogen water

8

9

10

QUESTIONS AND ANSWERS ABOUT HYDROGENATED WATER

What are the benefits of drinking hydrogenated water?

Because the antioxidant effect produced by hydrogenated water helps to eliminate free radicals and this causes to minimize oxidative stress, which is the cause of many diseases and aging.

How much hydrogenated water is recommended to drink per day?

The ideal are 1 to 3 liters a day in aids and between meals.

Can it be used for cooking?

Hydrogen is lost quickly when water is heated, so although it can be used without problems, it will not have the same properties.

Can I risk drinking too much hydrogen?

This is impossible, as hydrogen evaporates over time and is released through the respiratory tract, so you can never overdo it with hydrogen, even if it takes many liters.

Can any type of water be hydrogenated?

The best water to be hydrogenated is always very low mineralization or reverse osmosis.

In addition to water, can I hydrogenate other beverages?
You cannot hydrogenate anything other than water as mentioned in the previous question.

What does hydrogenated water taste like?

Hydrogen does not provide characteristics other than water neither taste nor smell nor color.

Is it a water purifier?

No, that is why we recommend that it is always connected after a reverse osmosis unit.

How long can I keep hydrogenated water?

Hydrogen has to evaporate between 1 and 2 hours in an open glass or container. If it is kept in the refrigerator, in a closed container and full to the edge of hydrogenated water without leaving room for air, it can be stored for several days.

Is it possible to completely dispense with the consumption of other products or antioxidants?

It is never advisable to dispense with the consumption of foods with high levels of antioxidants in a balanced diet.



*The H2Spark equipment
can be personalized with the client's logo.*

More than 400 studies on hydrogenated water

STUDIES ON HYDROGEN AND THE BRAIN:

"Continued consumption of hydrogenated water reduces oxidative stress in the brain and prevents the brain-induced decline learning stress and memory caused by chronic physical retention".

Authors: Nagata, Nakashima - Kamihura, Mukami, Ohsawa, Ohta. **Published in:** **Neuropsychopharmacology (Nature Publishing Group), 2009.**

"Molecular hydrogen is a therapeutically emerging gas for neurodegeneration and other diseases".

Authors: Ohta, Ito, Ichihara, Masafumi Ito. **Publicado en:** **Hindawi Publishing Corporation Oxidative Medicine Anocelular Longevity, 2012.**

"Hydrogen improves neuronal function by decreasing the disturbance of the blood-brain barrier in the brain in hypertensive spontaneous strokes in mice".

Authors:Takeuchi, Nagatani, Otani, Nawashiro, Sugawara, Wada. **Publishing in:** **Biomed Central Neuroscience, 2015.**

STUDIES ON HYDROGEN AND THE HEART:

"Water supplemented with hydrogen protects cardiac grafts and transplants from deterioration associated with inflammation".

Authors: Noda, Twaka, Shigemura, Kawamura, Bermudez, Jrus. **Publishing in:** **Transplant International, 2012.**

HYDROGEN AND SKIN STUDIES:

"Hydrogenated water can prevent inflammation caused by UV and can modulate aging eniointrinsic to the skin and the processes of photoaging. Atomic hydrogen included in water molecules, its gene expression with basal and U.V.-induced modulation in human skin cells".

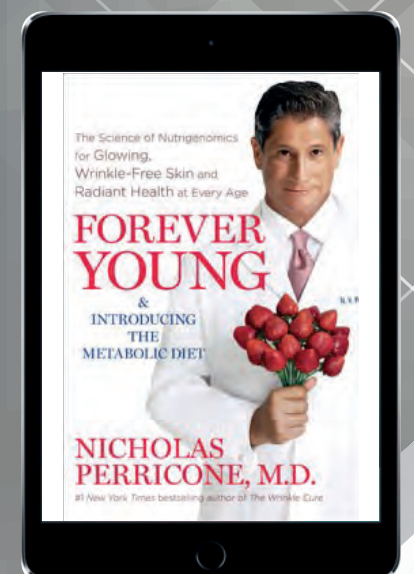
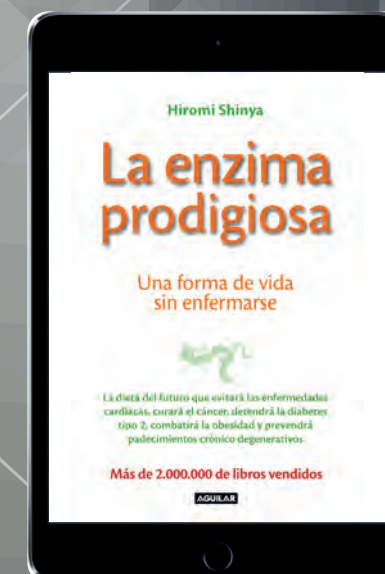
Authors: Shin, Park, Nojima y otros. **Publicado en:** **Plus One, 2013.**

"Hydrogenated water supplied to patients by tube feeding with pressure ulcer and its reconstruction dto normal skin cells in vitro."

Authors: Li, Kato, Matsouka y otros. **Publishing in:** **Medical Gas Research, 2013.**

"Positive effects of hydrogenated water on atopic dermatitis induced by Dinitrochlorobenzene in NC/NGA mice".

Authors: Yoon, Easter Joy, Rosa.M, Coles y otros. **Publishing in:** **The Bio, Phrama, Bull, 2014.**



h₂spark

HYDROGENATED WATER

THE MOST COMPACT EQUIPMENT ON THE MARKET



Purifier and hydrogenator 2 IN 1



Advantages of the H2 Spark equipment

- Plastic reduction in your home.
- Contribution to the sustainability of the planet.
- Water of superior quality to that sold in supermarkets.
- Elimination of chlorine, sediments, lime, parasites, bacteria, etc.
- Antioxidant water beneficial to health.
- Economic savings in the purchase of water.
- Have quality water at any time in your home.



Advantages of hydrogen

- It has anti-inflammatory properties.
- Relieves muscle and joint pain.
- Helps to balance the body's acid-base relationship.
- Improves skin condition.
- Increases energy, mental clarity and attention.
- Improves sports performance and shortens recovery time.
- May help improve blood circulation.
- Improves metabolism and bowel movement.



Elimination of components

A reverse osmosis unit removes the following components from the inlet water:

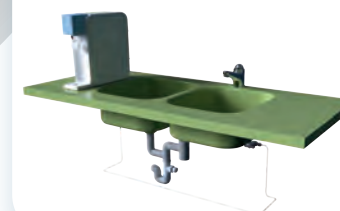
- Chlorine
- Sediment
- Odor
- Lime
- Flavor
- Bacteria



Installation from an external container



Installation on worktop



Under counter installation



Technical data of the system

- **Model:** H₂Spark.
- **Consumption:** 80W.
- **Hydrogen concentration:** hasta 1.000 ppb.
- **ORP:** Entre -450 ~ -580 mV.
- **Working temperature:** 5°C ~ 40°C.

- **Working pressure:** 0 ~ 0,6 Mpa.
- **Input and output voltage:** 100~240V / 50~60Hz.
- **Inlet water pressure:** 5 Kg máx. **leak-proof.**
- **Equipment weight:** 4,5 Kg.
- **Equipment dimensions:** 340 x 119 x 363 mm.