

Why is it a latest equipment?

DIAMOND
SERIES

osmofilter
Tratamiento Integral del Agua



3-in-1 hydrogenator module

The *first module* is a homogenization tank and O3 exhaust with an anti-pollution bacterial system.



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



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

- **1st stage:** Mixing through the Venturi system.
- **2nd to 6th stage:** Mixing coil to increase the H2 content in the water.
- **7th stage:** Water stabilization with H2.

The most complete hydrogenated water purifier on the market



General equipment data



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



Separation of O3 for better taste, odor and water antioxidant capacity.



Easy installation



High stability of H2 in water.



Direct flow. High hydrogenation power.



Latest hydrogen module.



The most compact system on the market.



NSF certified tube.



External transformer.



1/4" assembly for greater reliability.



NSF certified connections.



Titanium plates of the highest quality.

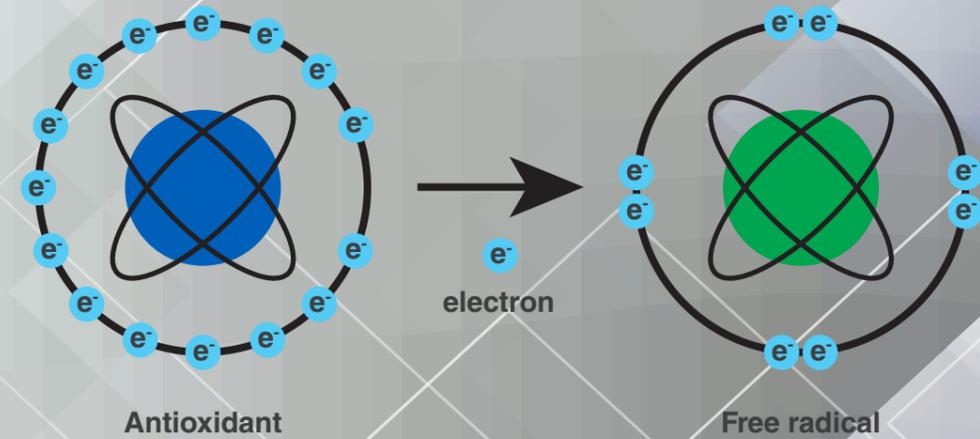


Choice of the water outlet by pushing a button or a tap.



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





WHY DO WE AGE?

We oxidize, it's inevitable. Oxygen is essential for life, but it makes **our cells oxidize** and **free radicals** appear as a result of cellular oxidation.

When a cell is oxidized by free radicals it can die or reproduce with flaws, leading to diseases and premature aging.

WHAT IS AN ANTIOXIDANT?

It is a **molecule** that **decrease the destructive action of free radicals**. It can be produced by our body or substances that come from the food we eat.

WHAT IS A FREE RADICAL?

It is an **atom that is missing an electron** and is trying to get it by stealing it from a healthy and complete one. When it achieves its goal, the healthy atom transforms into another free radical that tries to steal electrons and so on.

WHY DOES IT HAPPEN?



Alcoholic drinks



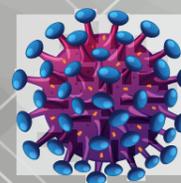
Tobacco



Pollution



Sun and other ultraviolet rays



Viral infections

HOW DO THE ANTIOXIDANTS BEHAVE:

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

HOW DO THE FREE RADICALS BEHAVE:

Free radicals seek to stabilize themselves by stealing an electron from nearby stable molecules, resulting in their death or diseases. This can be avoided with food intake or hydrogen water.

HOW CAN WE SOLVE IT? WITH FOODS HIGH IN ANTIOXIDANTS OR HYDROGEN WATER:

Foods high in antioxidants are key to good health. When consumed frequently our body has the ability to regenerate and prevent premature aging.

There are about 8,000 types of antioxidants, although not all act in the same way in our body. The most important thing is to provide a healthy amount of antioxidants a day. All that amount can be obtained with hydrogenwater and H2Spark UF.



Tomato

Pepper

Broccoli



Carrot

Avocado

Mango



H₂Spark UF

Hydrogen water

QUESTIONS AND ANSWERS ABOUT HYDROGEN WATER

What are the benefits of drinking hydrogen water?

The antioxidant effect produced by hydrogen water helps with the elimination of free radicals and this causes the oxidative stress to be minimized, which is the cause of many diseases and aging.

How much hydrogen water is recommended to drink per day?

Ideally, 1 to 3 liters a day while fasting and between meals.

Can it be used to cook?

Hydrogen evaporates quickly when heating water, so even though it can be used without any problems, it will not have the same properties.

Can I run the risk of drinking too much hydrogen?

It is impossible, since hydrogen evaporates in time and is released via our respiratory route, so you can never drink too much hydrogen, even if you consume a considerable amount.

Is it possible to hydrogenate any type of water?

The best water to hydrogenate is the one of very low mineralization or reverse osmosis.

Besides water, can I hydrogenate other drinks?

You can not hydrogenate anything other than water as mentioned in the previous question.

What flavor does hydrogen water have?

Hydrogen does not present characteristics which are different from the ones water already has. It does not present a different flavour, smell or colour.

Is it a water purifier?

No, that is why it is recommended that you always go connected after a reverse osmosis equipment.

How long can I keep the hydrogenated water?

Hydrogen tends to evaporate after 1-2 hours when in a glass or other open containers. If stored in the refrigerator in a closed container filled to the brim with no space left for air it can be kept for several days.

Can it substitute the consumption of other foods high in antioxidants?

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



The H2Spark UF equipment can be customized with the customer's logo

OSMOFILTER PROJECTS SCIENTIFIC-TECHNICAL ADVICE

Osmofilter collaborates with the University of Valencia in demonstrating that hydrogenated water is beneficial against a pathology.



VNIVERSITAT
D VALÈNCIA

More than 400 studies on hydrogen water

STUDIES ABOUT HYDROGEN AND BRAIN:

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

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

"Molecular hydrogen is an emerging therapeutical gas used for the treatment of neurodegeneration and other diseases".

Authors: Ohta, Ito, Ichihara, Masafumi Ito. **Published in:** **Hindawi Publishing Corporation Oxidative Medicine Anocelular Longevitis, 2012.**

"Hydrogen improves neuronal function through the decrease of disturbance of the blood-brain barrier in severe hypertensive strokes in mice."

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

STUDIES ABOUT HYDROGEN AND HEART:

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

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

STUDIES ABOUT HYDROGEN AND SKIN:

"Hydrogen water can prevent inflammation produced by ultraviolet rays and can modulate the aging of the skin and the photoaging process. Atomic hydrogen included in water molecules and its gene expression with basal modulation and induced by ultraviolet rays in human skin cells."

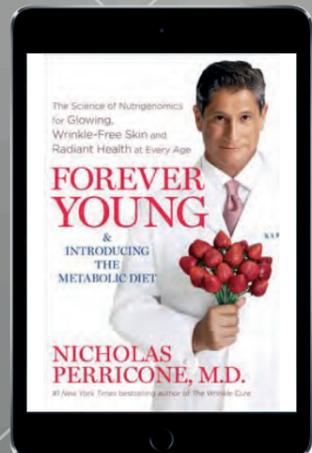
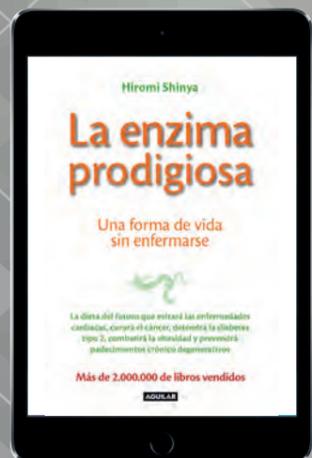
Authors: Shin, Park, Nojima y otros. **Published in:** **Plus One, 2013.**

"Hydrogen water supplied to patients with pressure ulcers via tube feeding and its reconstruction to healthy skin cells in vitro".

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

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

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



h₂spark·UF

HYDROGENATED WATER

The most compact equipment on the market



2-in-1: purifier and hydrogenator Carbon pre-filter



Carbon pre-filter

The carbon pre-filter removes the following components from the inlet water:

- Chlorine
- Taste
- Smell
- Pesticides
- Organic matter
- Bacteria

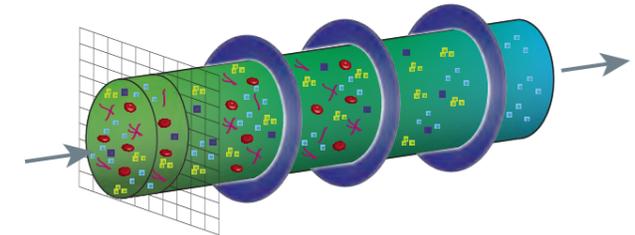


Advantages of the H2 Spark UF equipment

- Reducing the amount plastic in your home.
- Contributing to environment sustainability.
- Water of superior quality compared to the one sold in supermarkets.
- Elimination of chlorine, sediments, lime, parasites, bacteria, etc.
- Antioxidant water which is beneficial for our health. Saving money when purchasing water.



Ultrafiltration membrane



- Elimination of viruses and organic macromolecules
- Parasites filtration
- Bacteria filtration.



Advantages of hydrogen

- It has anti-inflammatory properties.
- It relieves muscle and joint pain.
- It contributes to the balance of acid-base relationship of our body.
- It improves our skin condition.
- It increases our energy, mental clarity and attention span. It improves our sports performance and shortens recovery time.
- It can help improve our blood circulation. It improves our metabolism and bowel movement.



Countertop installation



Under countertop installation



Technical data of the system

- **Model:** H₂Spark UF.
- **Power:** 80W.
- **Hydrogen concentration:** hasta 1.000 ppb.
- **ORP:** Entre -450 ~ -580 mV.
- **Working temperature:** 5°C ~ 40°C.
- **Included carbon filter**
- **Working pressure:** 0 ~ 0,6 Mpa.
- **Voltage:** 100~240V / 50~60Hz.
- **Inlet water pressure:** 5 Kg máx. **anti-leakage**
- **Weight:** 4,5 Kg.
- **Dimensions:** 340 x 119 x 363 mm.
- **Included ultrafiltration membrane**