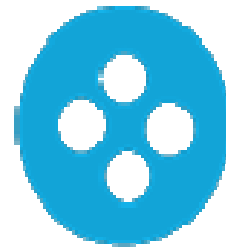




Healthy water for your home

h2o.TITANIUM®_home





Why this product

" We believe that it is our obligation to affirm that the water of high cost does not serve to the interests of the public health. The pure water galore, to a price that is within reach of all, is one of the most powerful ways to promote the health of any community"

Meeting of Health of North Carolina,1898



Why this product

There are many technologies for disinfect water for domestic and industrial use. Commonly, the equipments of reverse osmosis -with all the possible combinations (with UV lamps, filtrations systems, softeners, etc.)- are the option which people choose to buy.

SOLUTIONS	DOMESTIC	INDUSTRIAL
Size	Small	Very big.
Design	Sophisticated	Industrial
Water suitable for consumption	Only to one point of use	For whole home
Installation and maintenance	Simple	Specialized people needed
Flow production	8 – 100 liters/day	720 – 30.000 liters/day
Water quality	It depends of the materials' quality used Required the addition of mineral salts	Osmotic water Required the addition of mineral salts
By products	Between 1 and 4 liters for 1 liter produced.	20%-85%



Why this product

Aim:

Designing a product that meets the European standards, handy, compact and robust, versatile, easy to use, install and maintain; durable in time and able to treat the water of a whole house making it suitable for consumption without changing the good properties of the water, and available at least , to the 30% of the population of a country.

h2o.TITANIUM®_home



The solution: *h2o.TITANIUM®_home*

OUTSIDE



Model: UPA 10

h2o.TITANIUM®_home



The solution: *h2o.TITANIUM®_home*

INSIDE



Filters UPA 10



Model UPA 10



The solution: *h2o.TITANIUM®_home*

Contaminated water
A SERIOUS PROBLEM

h2o.TITANIUM®_home
THE SOLUTION

Healthy water
SUITABLE FOR CONSUMPTION

Microorganisms

COV's

Chlorine

Insecticides

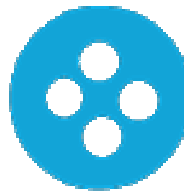
Phenols

Benzene



Pesticides

Sediments





The solution: *h2o.TITANIUM®_home*

h2o.TITANIUM®_home

Is a semi-industrial solution to treat the water that considers the best advantages of the domestic and the industrial versions

DOMESTIC

h2o.TITANIUM®

INDUSTRIAL





The solution: *h2o.TITANIUM®_home*

h2o.TITANIUM®_home

Is the only one in the market which

Uses Sinterezed Titanium Dioxide to disinfect the water

Don't use the RO to decontaminate the water

Don't need to add mineral salts to balance up the water

Removes the contaminants selectively



The solution: *h2o.TITANIUM®_home*

SOLUTIONS	DOMESTIC	<i>h2o.TITANIUM®_home</i>	INDUSTRIAL
Size	Small	Small	Very big.
Design	Sophisticated	Industrial but with stylish	Industrial
Water suitable for consumption	Only to one point of use	For whole home	For whole home
Installation and maintenance	Simple	Simple	Specialized people needed
Flow production	8 – 100 liters/day	12.000 - 24.000 liters/day	720 – 30.000 liters/day
Water quality	It depends of the materials' quality used	Suitable for consumption.	Osmotic water
Salts addition	Required	NO required	Required
Decontamination	Reverse osmosis	Sinterized Titanium Dioxide + filtering	Reverse osmosis
By products	Between 1 and 4 liters for 1 liter produced.	None	20%-85%



The technology: How h2o.TITANIUM®_home woks



Step 4

Advanced oxidation process.
Removes microbiological contaminants without using chemicals.

Step 1

Basic filtering
Reduce dirt, sludge, rust, suspended
Cartridge made of polypropylene fibers
1, 5, 20 and 50 μ
Filter UPA-FCPS

Step 2

Multi stage filter.
Removes hundreds of contaminants in water
Filter UPA-FCCBKDF

Step 3

Solid carbon filter.
Removes volatile organic compounds (VOCs),
insecticides, pesticides
and industrial solvents.
Filter UPA-FCCBL



The technology: How *h2o.TITANIUM®_home* works

Combining the three steps of filtration *h2o.TITANIUM®_home* is able to:

1. Reduce hundreds of contaminants
2. 99,99% water disinfection
3. Soften the water
4. Improve clarity
5. Reduce chlorine
6. Remove iron
7. Reduce manganese
8. Reduce calcium
9. ...

**Drinking water at the instant
in every point of use
of the whole house**



The technology: How h2o.TITANIUM®_home woks

TITANIUM
ADVANCED OXIDATION PROCESS

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CE

EC-DECLARATION OF CONFORMITY

PLS SYSTEMS AB
ARLAVÄGEN 2
330 27 HESTRA
SWEDEN

Declares that design and manufacturing of these products complies with following Directives and Standards.

The CE-mark was affixed in 2011.

Type of product: Product for water purification

Product name: TITANIUM AOP - UPA with filters

Variation: 1.0

Intended use: WATER PURIFICATION AND DISINFECTION BY HYDROXYL RADICALS

Hestra, Sweden 2011-02-01

PLS SYSTEMS AB
Bengt Palmquist
Bengt Palmquist
CEO

PLS Systems AB, Arlavägen 2, 330 27 Hestra, Sweden
Phone: +46 370 335270, Email: info@pls-system.se

WRAS
Water Regulations Advisory Scheme

This certifies that

PLS SYSTEMS AB

has had the undermentioned product examined, tested and found, when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Water Fittings) Regulations/Scottish Water Byelaws.

AOPI, AOPS, AOPI0, AOP20, AOP50 & AOPI00 RANGES OF OXIDATION WATER PURIFIERS

Reference should be made to the accompanying acceptance letter for installation requirements

The product so mentioned will be listed in the Water Fittings and Materials Directory for a period until:

1 FEBRUARY 2016

1102066
Cert/Water/A0

R. Chiswick *A. ...*
Chairman, Test and Assessment Group Director

WRAS
Approved Product



The result: compliance of the objective

h2o.TITANIUM®_home is...

Scandinavian technology with Spanish development (meets EU standards)

Handy, compact and robust but with stylish (semi-industrial equipment)

Versatile (combines different filters to remove the selected contaminants)

Easy to use, install and maintain

Durable in time and with cheap maintenance and spare parts

Able to treat the water of a whole house making it suitable for consumption

Do not change the good properties of the water (no RO used)

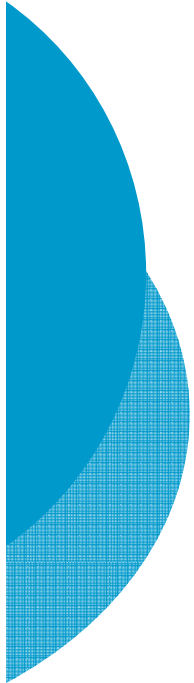
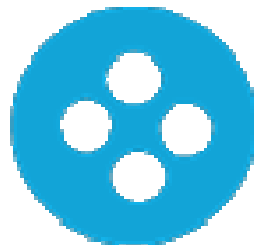
Available to the 30% of the population (cheap considering its benefits)



The market for the *h2o.TITANIUM®_home*

<i>Point of use</i>	<i>Water origin</i>
Particular houses	Wells
Hotels and restaurants	Lakes
Clinics and spas	Rivers
Office blocks	
Small trades	

**All places which needs
water in good
conditions to be
drank and used**





h2o.TITANIUM®_home competitors

Industrial Reverse Osmosis vs *h2o.TITANIUM®_home*

Basic comparison parameters

SOLUTIONS	Industrial RO	<i>h2o.TITANIUM®_home</i> UPA 10'
Flow production	500 l/h	500 l/h
Size	Very big	Small
Water quality	Osmotic water	Suitable for consumption
By products	85%-20%	0%
Maintenance	Specialized technicians	Simple and easy

h2o.TITANIUM[®]_home

