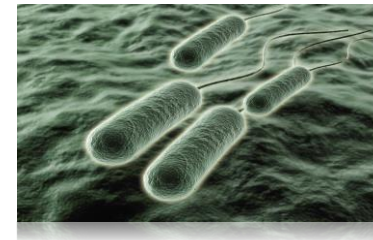


**WAYS**

**PWD**  
**PURI-WATER DEVICE**



# PWD

## PURI-WATER DEVICE

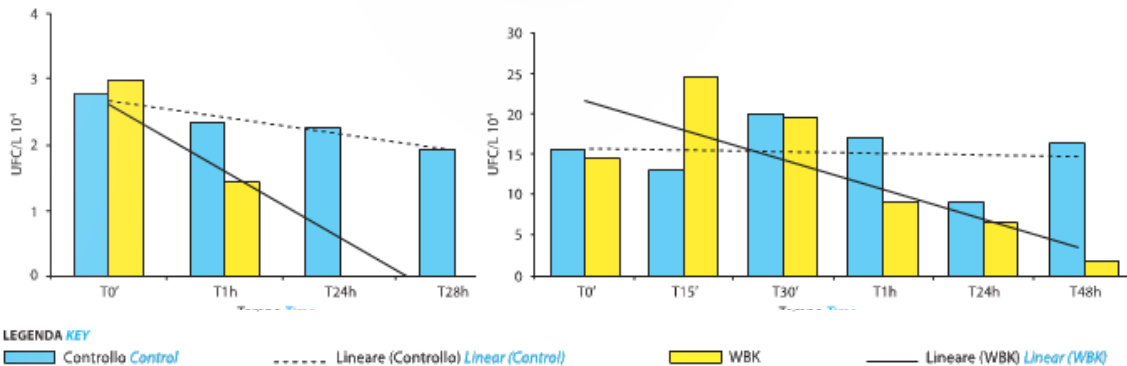
**PATENTED worldwide – This innovative device is the extraordinary result of 13 years of study and research**

### GENERAL FEATURES

Special combination of mineral alloys present in the nature which produces a chemical reaction of oxide-reduction in contact with water, transforming chemical energy into electricity. Setting the energy free, it carries out a triple action: **ANTIBACTERIAL ACTION, CHLORINE REDUCTION and LIMESCALE REDUCTION.**

In particular, its effectiveness has been tested on the water and fecal bacteria (Escherichia coli, Pseudomonas aeruginosa, Legionella pneumophila, ...)

**Purifying Water Device - PWD System** was born thanks to an Italian chemical researcher's intuition and its action has been the antibacterial action has been experimentally proven by the researchers of the University of Padua (Italy) of the Institute of Hygiene and Prophylaxis and the Institute of Microbiology. The artificial contamination of water samples with a big quantity of different types of bacteria has been neutralized within a few hours by the presence of the device: **antibacterial action**, evident already after a few minutes, has been evaluated **complete and irreversible after 48 hours, and also against Legionnaire's disease (Legionellosis).**



Evolution of the concentration of Escherichia coli in suspension without and with device

Evolution of the concentration of Legionella Pneumophila in suspension without and with device



### APPLICATION FIELDS – Containers, Tanks made of food-grade materials

- **Water Stored in any kind of container for storage** - tanks, pools containers in camping vans, boats...
- **Veterinary, Animal Husbandry (livestock), Aquariology and Fish Farms** • **Treatment and prevention against Legionella infections**
- **Well Water; Waste Water**

### LIFETIME/PERFORMANCE – up to 12 months

Its performances depend on water quality: very hard water makes the device duration shorter, the interior part tarnishes progressively, indication of a correct and effective work. The total tarnish of the internal surface of the device shows that it has to be changed

Water temperature minimum - maximum: 5 ° - 50 ° C.

### HOW IT WORKS:

- 1 Measure the volume of water
- 2 Choose PWD matches the capacity
- 3 Dip the PWD in the tank and let it act  
It does not require power supply or agitator

### TRIPLE ACTION:

- **ANTIBACTERIAL** against e-coli, pseudomonas and legionella **IRREVERSIBLE ACTION.**
- **CHLORINE REDUCTION**
- **LIMESCALE REDUCTION**

### CONFORMITY OF PWD System

PWD System is in compliance with Italian Regulations no. 1935/2004 CE about materials and articles intended to come into contact with food, DM n.174/2004 and it is in accordance with DM n.25/2012

**DISPOSAL:** PWD, entirely made of alloys, it is totally recyclable and it can be thrown with cans.



PWD – Examples of different shapes\*

## HOW TO USE

**PWD** is a system intended for the treatment of drinking water. Use only in containers or tanks made of material certified for food use.

1. Insert, and let set, the device in the container / water tank.
2. The reduction of the bacterial load is detectable after a minimum time of 15-20 minutes.
3. The gradual darkening of the surface colour "yellow" is indicative of a correct and effective use of the device, while its comprehensive "blackening" indicates that the device must be replaced.

## INFORMATION ON SAFE

- Do not use PWD in iron tanks.
- Do not use the system PWD in beverage or liquid "acid" as yogurt, fruit juices or carbonated drinks: PWD fact always brings substances or liquids with characteristic tending to basic.
- Do not use PWD if the surface colour "yellow" is completely blackened.
- Do not use the system PWD in demineralized or distilled water, because it would be ineffective. The mineral salts dissolved in water are in fact necessary for the operation of the PWD: with the increase of dissolved salts in the water increases the chemical reaction of oxidation-reduction, and thus the effectiveness of the PWD. It is recommended that water with at least 200 µs/cm electrical conductivity.

## CLEANING / MAINTENANCE

Clean the device with products fluxes (eg. Cotton soaked with vinegar), periodically every 30/40 days or, in any case, when the device is completely oxidized in the colour "yellow".

**Replace a maximum after 12 months.**

## SPECIAL CASES

The system PWD for its peculiarities located other particular applications, some of which are mentioned below:

### MILK

WBK, which bacterial growth inhibitor, has been shown to lengthen the preservation of fresh pasteurized milk for at least 10-15 days. from its natural end. On the use of PWD in milk, it is recommended to wash the device with water on average every 6/7 days. to remove the fat deposited and thus ensure optimum operation.

### SWIMMING POOL

Chemicals and weather affect and dirty the wall surface, hindering the exchange and the yield of the system, especially if the pool is in the open. It 'important and must therefore keep clean (every 2 or 3 weeks - depends on the weather and environmental), simply with a broom, the silver surface of the system that WBK, for its composition and reaction, attracts dirt, impurities and agents atmospheric that form a sort of film on the surface of the system itself.

### FOUNTAINS AND ORNAMENTAL POOLS

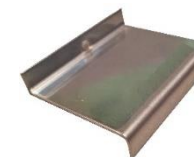
PWD inhibitor of bacterial growth is indicated to counteract the formation of algae and / or mold in ponds and fountains.

### CONSERVATION

WBK, when not in use, should be stored in a nylon bag and possibly in a dry place (so that the metal plate not oxides).



## EXAMPLE OF DIFFERENT SHAPES



### TANK OF THE COFFEE MACHINE

The device, immersed in the reservoir tank of your machine, improves the quality of your coffee.

*Dimensions: 5 x 5 cm.*



### POOLS UP TO 20,000 LITERS

Stop using chlorine and algae in the pool of your own home

*Dimensions:*

*(20.000L) diameter 50 cm*

*(40.000L) diameter 100 cm*



### TANKS 300 - 500 - 1000 - 1500 LITERS

Ideal for tanks with float for easy control and removal.

*Dimensions:*

*(300L) 3 discs diameter 12 cm*

*(500L) 5 discs diameter 12 cm*

*(1000L) 10 discs diameter 12 cm*

*(1500L) 15 discs diameter 12 cm*



### TANKS 80/100 – 150/200 – 200/250 LITERS

Ideal for tanks of boats and campers.

*Dimensions:*

*(80/100L) 10 x 10 cm*

*(150/200L) 15 x 15 cm*

*(200/250L) 20 x 20 cm*



## AVAILABLE MODELS

The shape and size of the system may vary depending on the applications and needs.



# PWD

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