

# LotusDY



NEXT-GENERATION  
WATER SYSTEM



# WATER ISSUES



## PIPES

The pipes are made up of lead, iron, asbestos cement, copper, and plastic. The flow of water causes them to release heavy metals and microplastics, harming our health. Moreover, these same pipes can also carry gases, viruses, bacteria, parasites, sediments, etc.



## BOTTLED WATER

Although it is usually of high quality, there is a risk associated with its consumption when it comes into contact with plastic, as it can be exposed to toxic substances. The problem is the risk of ingesting the chemicals with which the bottles were made (BPA).

These residues can enter the bloodstream and cause problems and damage to the liver and kidneys. Another issue is the presence of hormones in some bottled water brands. In addition to the environmental problems due to the use of these plastics and the amount of water used to manufacture them.

Water contains various harmful elements, and it is in our hands to eliminate or treat them. The water that reaches our homes is suitable for human consumption, but it is far from being of high quality. By the time it gets to our homes, it has traveled through miles of pipes dragging a lot of dirt, heavy metals, sediments, algae, parasites, etc. On the other hand, bottled water carries a high environmental cost in the bottling and transportation process, and what's even worse is the packaging, as most of it is made from petroleum derivatives.



## PFAS

PFAS are over 4,700 synthetic chemical agents used by various industries, contaminating aquifers and accumulating in humans and the environment. They are known as "forever chemicals" because they are extraordinarily persistent in the environment and in our bodies. They can cause health problems such as liver damage, thyroid diseases, obesity, fertility issues, and developmental problems in children.



## HYPERCHLORINATION

Water chlorination is necessary for its disinfection; otherwise, we could suffer severe diseases and disorders in the body. Chlorination doses vary depending on the entity applying them, so the chlorination range can go from 0.2 ppm to 1 ppm. This difference is substantial since the intense taste and smell of chlorine are very bothersome and unpleasant. Moreover, chlorine kills bacteria and viruses in the water, but not those residing in the air within the pipes.



# CONVENTIONAL REVERSE OSMOSIS

## SYSTEMS (RO)



Conventional reverse osmosis systems generate excessive water consumption and remove a large number of minerals such as calcium, magnesium, chlorides, and iodine, among others, essential elements for the proper functioning of our body. Moreover, they produce very negative effects on our ecosystem and deficiencies in our health.

According to the guidelines of the “World Health Organization”, the content of total dissolved solids (TDS) in healthy drinking water should be higher than 100 mg.

## AN ENVIRONMENTAL PROBLEM

Only 0.007% of the water existing on Earth is drinkable, and this amount is decreasing due to pollution and climate change. Additionally, water consumption is growing due to its misuse and population growth. Global demand is expected to increase by 55% by the year 2055.

Conventional osmosis systems, connected to a drain to remove impurities, reject between 0.7 and 14 liters of water per liter consumed. This, multiplied by millions of machines worldwide, results in an unsustainable waste of water.





## HEALTH



Osmosis systems remove essential minerals from water that are vital for our body, such as calcium, magnesium, chlorides, and iodine, among others. Although many osmosis systems incorporate a remineralizing post-filter to provide calcium and magnesium, they do so through particles and not ions. As a result, a person would need to drink more than 50 liters a day to fix these minerals in their body.

Minerals consumed in foods are eliminated in urine, so they cannot compensate for the lack of minerals in reverse osmosis (RO) water. Consuming reverse osmosis water causes the dilution of electrolytes dissolved in body water, leading to symptoms such as fatigue, weakness, headaches, muscle cramps, and heart rhythm disturbances.



Recent studies suggest that this water may be a risk factor for hypertension and coronary heart diseases, gastric and duodenal ulcers, chronic gastritis, goiter, complications during pregnancy, and various complications in newborns and babies, including jaundice, anemia, fractures, and growth disorders. They can also alter the pH of the water and produce acidic water. Being connected to a drain increases the risk of bacterial proliferation from the sewer.

## PROHIBITIONS AND RESTRICTIONS

India (Asia) is the first country in the world to ban reverse osmosis (RO). Countries like Israel are taking steps to follow its lead. In many other countries without bans, this type of water is discouraged.

The National Green Tribunal has banned the use of reverse osmosis in cases where the TDS is less than 500 mg/l (ppm), but government guidelines allow reverse osmosis water purifiers up to 100 mg/l (ppm). Conventional reverse osmosis typically operates between 20 and 60 mg per liter (ppm).



Furthermore, the Ministry of Drinking Water and Sanitation (MDWS) issued a notice asking people not to use reverse osmosis water purifiers, as they deplete groundwater resources.

# LotusDY

LotusDY IS THE MOST ECOLOGICAL AND HEALTHY SOLUTION TO OBTAIN QUALITY DRINKING WATER,

REMOVING AND TREATING ALL WATER IMPURITIES AND MAINTAINING ALL THE ESSENTIAL MINERALS FOR THE PROPER FUNCTIONING OF THE BODY, WITH A 0% WATER REJECTION AND 0% ENERGY CONSUMPTION.



## 1 AIR RELEASE

It releases air and gases derived from oxygen, eliminates aerobic bacteria and viruses in the filter. It prevents radioactive gases and toxic gases such as ethane, propane, butane, hydrogen sulfide, radon, chlorine, helium, and ammonia.

## 2 PP PREFILTRATION

It removes particles such as sand and increases the water's clarity level.



## 3 GAC/TIL ROD

It treats radioactive materials, water color, turbidity, chlorine, chlorogenic compounds, bad odor, bad taste, heavy metal treatment, and bacteria inhibition, and dissociates minerals.



## 4 CHAMBER COLLECTOR

Collector for gathering impurities and residues.



## 7 SMART MEMBRANE

Unique membrane modified to retain the natural mineral ions in the water.



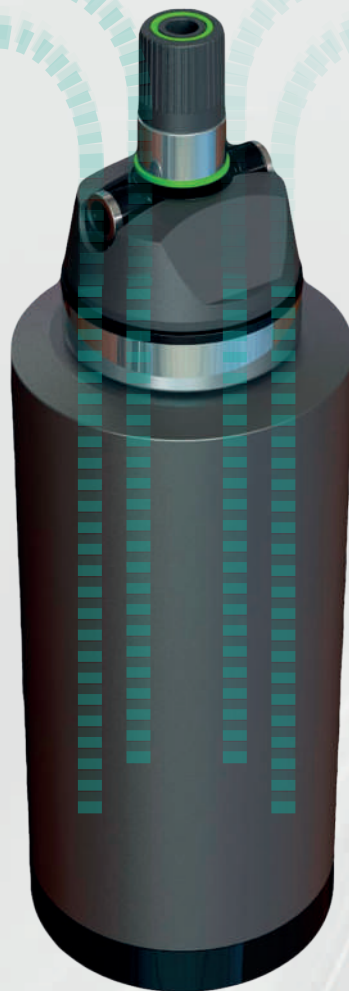
## 6 MINERAL

Mineral regulator.



## 5 GAC CARBON

Treats the final taste of the water.



# BENEFITS

## OF LotusDY WATER PURIFIER

LotusDY is the definitive solution to drinking water problems. The most efficient, healthy, economical, and fully environmentally friendly solution.

### ECO-FRIENDLY

LotusDY uses the most advanced patented technology to become the most energy-efficient and environmentally friendly water purifier.

- + It does not consume electricity. It is not connected to the power grid.
- + No water rejection. It is not connected to the sewage system.



### ECONOMIC SAVINGS

There are no costs for electricity, water waste, or breakdowns.

- + Savings on electricity. By not being connected to the electrical grid, it avoids increasing the electricity bill from another device.
- + Water savings. With a 0% rejection rate, the water bill will not increase.
- + Savings on repairs. By operating hydraulically, it avoids the recurrent repairs of conventional equipment (pump, base plates, transformers, electrical circuits, etc.).



# HEALTHY

## TASTE AND QUALITY

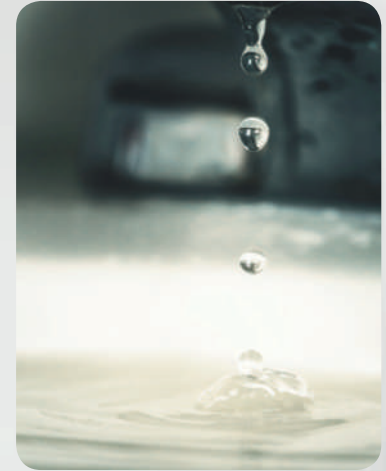
Improves taste and quality, regulates pH preventing acidity, maintains natural mineralization, can regulate magnesium supply, and removes all water impurities. It is the only one in the world that eliminates gases.



## ELIMINATES TOXIC GASES

Removes toxic gases such as Ethane, Propane, Butane, Hydrogen Sulfide, Radon, Helium, Ammonia.

## TREATS RADIOACTIVE MINERALS



## AND MAINTAINS:

### MINERALS

- + It retains all the minerals necessary for the proper functioning of the body.
- + The minerals in the water promote digestion, help the body transport nutrients, and eliminate waste. They are also essential for the proper functioning of the heart, bones, brain, and cells.

### IODINE

- + It maintains iodine in the water.
- + Iodine deficiencies can increase the risk of developing thyroid gland diseases.
- + Another consequence of iodine deficiency is cretinism, which causes delayed physical and mental growth, muscle stiffness, deafness, and dwarfism.

### MAGNESIUM

- + It can regulate the magnesium supply from 0 to 100 while maintaining a neutral pH. It provides magnesium through ions and not through particles, allowing it to be fixed in our body.
- + Magnesium deficiency causes joint problems, muscle pains, dizziness, and headaches. The presence of magnesium in our body helps regulate blood pressure, muscle contraction, heart rate, and the balance of the nervous system, and also strengthens the immune system by reducing stress and promoting sleep. It also improves insulin sensitivity and alleviates migraine symptoms.

### CHLORIDE

- + It is an essential mineral for regulating and controlling the balance between fluids and electrolytes. Its function is fundamental in maintaining the volume of extracellular fluid, the conduction of nerve impulses, and blood pressure.

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