

# Does the RO water purifier use electricity?

You are planning to buy an RO water purifier but are afraid of wasting electricity, so you still have to wonder if you should buy it. Please read this article to see if RO water purifier is power consuming.

Water purifiers are divided into 2 types: RO water purifier and Nano water purifier. However, the Nano water purifier does not use electricity so it does not need to calculate the power consumption. So does RO water purifier have a lot of power?

## Principle of operation of RO water purifier

Unlike Nano water purifier (without electricity), RO water purifier needs electricity to conduct water purification. RO water purifier is equipped with RO membrane filter with the size of ultra-small holes (0.0001 micro meter ~ 1/10000 hair fibers), will remove most heavy metal ions, harmful bacteria as well as other impurities, help bring water after ultra-clean, can be taken directly without boiling.



When the water source is supplied to the water filter, it will go through the filter column No. 1 - the crude fiber core of PP. Filter core 1 has a slot size of 5 micro meters, which can remove impurities and dirt that are larger than 5 micro meters. Only keep dirt, impurities smaller than 5 micro meters.



Water will then be drawn from the No. 1 filter to the No. 2 filter. The 2nd filter contains activated carbon that absorbs heavy metals, organic matter, detergents, pesticides, and chemical substances. toxic. The Cationic ingredient found in the filter core 2 also has a water hardness reduction function that protects the RO membrane more durable, provides a fresh water source and has a natural sweet taste.

Next, the water will be sucked into the filter core 3. Filter 3 with 1 micro meter gap will help remove dirt, rust, rough impurities, heavy metals . size > 1 micro meters.

Filtered water in the third filter is pushed back to the RO filter. RO filter membrane operates under reverse osmosis mechanism, withstands high pressure and has a very small gap (0.0001 Micro) that will completely remove solids, water-soluble gases, metal ions, heavy metals , microorganisms, bacteria, large organic substances 0.0001 Micro, bring extremely pure water, extremely good for health.

Here the water will be separated into 2 lines: 1 road going through the waste water valve and flowing out. The remaining line will continue to be directed to the CLT33 Carbon filter core. This filter has bactericidal, color absorbing, softening and PH balance for purified water.

## So how much electricity does a RO water purifier consume per year?

TipsMake.com will get a specific math problem for everyone to easily imagine.

### The problem is as follows:

A person uses 2 liters of water a day that the 2 liter water filter capacity of RO water purifier will consume 0.03KW of electricity.

So the water purifier has to filter 33.3 liters of new water to consume 1KW of electricity. 1KW calculates money = 2,000 VND.

To calculate the 1-year electricity of 1, one has the following formula:

1 consumer:  $0.03\text{KW} (2 \text{ liters of water / day}) \times 365 \text{ days} \times 2,000 \text{ VND} / 1\text{KW} = 14,000 \text{ VND} / \text{year}.$

If the whole family has 4 members, the electricity must be paid:  $4 \times 14,000 \text{ VND} = 56,000 \text{ VND} / \text{year}.$

From the above figure, you can see that the RO water purifier is extremely low in electricity, so if you buy an RO water filter, the monthly electricity bill is not a problem.

In addition, we will show you the following experience to find a quality and energy saving water purifier.

## Buy genuine RO water purifier

You should buy genuine water purifier from reputable brands such as Sunhouse water purifier, Kangaroo water purifier, Karofi water purifier, AOSmith water purifier, . to produce the best quality filtered water. .

Replacing the filter cartridge periodically also helps ensure that the water is filtered clean and cost-effective.

When using the manufacturer, it is recommended that users should replace the filter cartridge periodically as required to ensure the best water purification yield and the purest water source available.

Replacing the filter cartridge periodically will also ensure durability for RO water purifiers.

Hopefully, with the above article, you can know the electricity that the water purifier consumes for 1 year and know how to use the water filter properly to ensure durability.

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