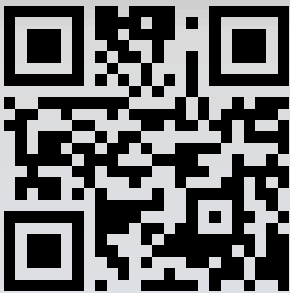
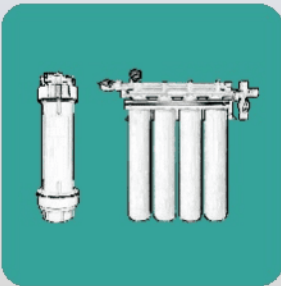
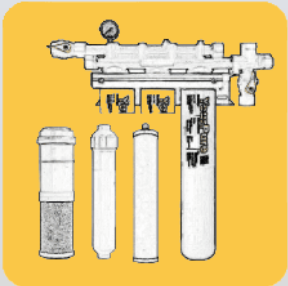


# YourPure Modular DIY Purifier



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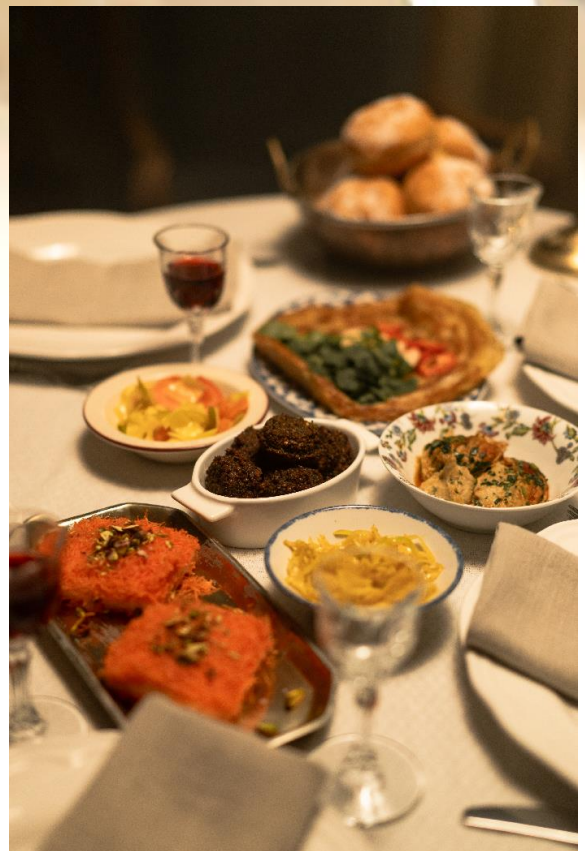
# Our Drinking Water

When we turn on the faucet at home, water flows out; this seemingly ordinary moment contains the mysteries and stories of water.

Water not only moisturizes our throats but also cleanses our bodies and has many magical properties. Water can transport nutrients and oxygen to tissues and organs, and can also remove waste products (urea, carbon dioxide) produced by cell metabolism from the body through the kidneys or lungs. In cellular tissues, water participates in all metabolic hydrolysis reactions and also has the function of regulating acid-base balance in the body. Without water, cell tissues cannot function normally, nutrients and oxygen cannot be transported, and people cannot survive. It can absorb heat, regulate temperature, and dissolve many substances, making our lives more convenient.

However, the water we drink is more than just H<sub>2</sub>O. It may contain various minerals, such as calcium, magnesium, and iron, or microorganisms, like bacteria and viruses. These are gifts from nature, but sometimes they need to be handled with care. Therefore, the source and quality of water are crucial.

In order to ensure that the water we drink is safe, water treatment has become a necessary part.





# Why you need homemade water purifier

Did you know that water quality and treatment methods are different in each region, as are the construction forms; this means that you must know what kind of water purifier you need, and you can make your own decisions about its functionality and type.

## Community building

Building water towers are usually cleaned regularly. What you should pay attention to is the residual chlorine in tap water disinfection.



## Detached house

If the water tower of a detached house is used slowly, the chlorine may have disappeared long ago, and what you should pay attention to is moss spores.



## Mountain spring water

Mountain communities may directly use mountain spring water, so attention should be paid to parasite eggs.



## Groundwater

You may use groundwater in suburban areas, so you should pay attention to whether there is heavy metal contamination.





## **Core Technology**

### **Particle Removal**

Particles exist in almost all water sources. The particles range from rocks, sediment, dirt, dust, silt, or minor sizes of microorganism (cyst & giardia), Algaes, or bacteria, virus.. etc. .

### **Disinfectant/ Chemical Reduction (Chlorine / Chloramine / Fluoride)**

Tap water may have been contaminated by bacteria when tap water through miles of piping to community, that make people sick. To prevent bacterial growth, the water plants adds a disinfectant usually either Chlorine, Chloramines, or Fluorides..etc.. However, these additives are not good for the human body.

### **Bacteria Removal**

Waterborne diseases are caused by pathogenic microbial that most commonly are transmitted in contaminated fresh water, water pipe lines or storage water in still. Infection commonly results during bathing, washing, drinking, in the preparation of food, or the consumption of food that is infected. Various forms of waterborne diarrheal disease probably are the most prominent examples.

The hollow fiber membrane has a pore size of 0.1 micron, while the smallest bacteria is larger than 0.2 micron. So it has a very high effectiveness in removing bacteria and removing protozoa.

In addition to bacteria and parasites, it can also filter out microplastics, and it can retain minerals that are good for the human body.

### **Heavy Metal Reduction**

Heavy metals (Cd, Cr, As, Pb, Ni and Sn) in groundwater pose a threat to human health. Not only groundwater, but old pipelines and faucets also release lead ions into tap water.

Effective heavy metal reduction solution is a priority need to obtain the safe water.

### **Scale inhibition**

Calcium creates scale in pipes, on appliances and other plumbing surfaces.

This leads to higher heating and energy costs and expensive repairs fee, such as ice machines, coffee makers, dishwashers and boiler in commercial applications.

Scale can also be a source for bacteria grow.



Port size : nominal 1um, Cyst, Asbestos Reduction  
Filter chlorine and odor.  
Iodine number > 1000

### Why use high density activated carbon block :

Use the 0.5 ~ 1 um high density activated carbon block, relative to the general process.

Can get the following advantages :

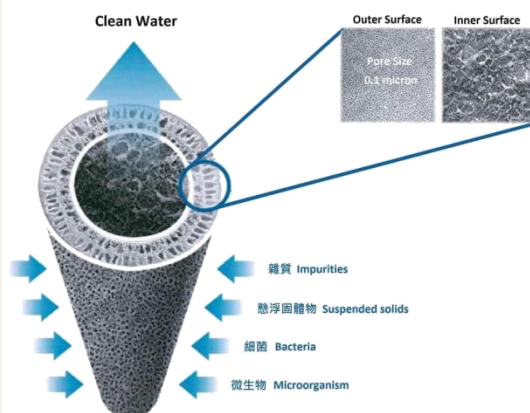
1. More filter holes
2. Better adsorption and filtration effect
3. Longer service life
4. Low pressure drop
5. Great taste

- Using NSF 61 Certified & FDA Approved PSF
- Using NSF 42 Certification Hollow Fiber
- Excellent hydrophilic and chlorine-resistant
- No chemical additive for preservation
- High flux asymmetric struture
- Embedded air vent fiber, avoids choked flow








### Why hollow fiber membrane

Hollow fiber membrane pore size only 0.1 micron, while the smallest bacteria is larger than 0.2 micron. The filter has a very high effectiveness in removing bacteria (for example, Campylobacter, Salmonella, Shigella, E. coli) and in removing protozoa (for example, Cryptosporidium, Giardia).

In addition to bacteria and parasites, it can also filter out microplastics,  
But minerals are not removed from the water by the hollow fiber membrane.



# Filter Family

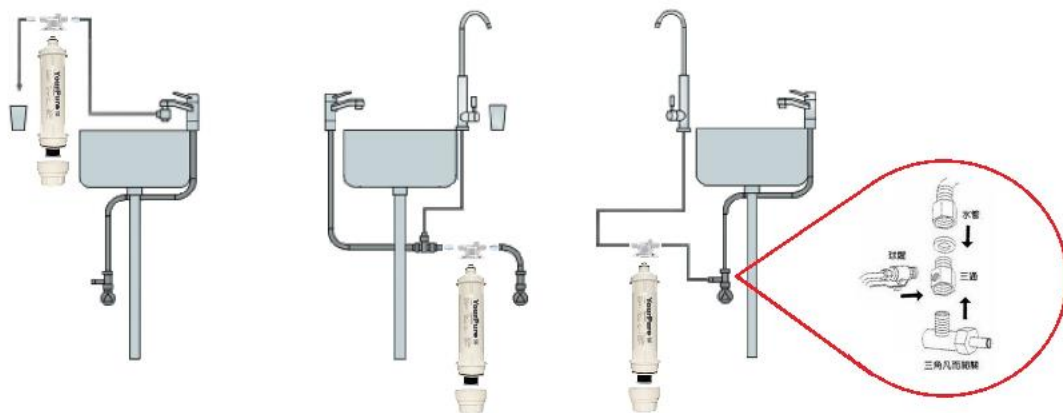
	Model	Filter chlorine and odor.	Reduction Lead & Heavy Metals	Filter out Cyst, Asbestos, Parasites, Plastic particles	bacterial inhibition	Filter out bacterial	Filter pore size
	<b>YQF-555</b> Add silver and remove lead High-Density Activated Carbon Block Hollow fiber membrane	●	●	●	●	●	0.1 um
	<b>YQF-553A</b> Add silver and remove lead High-Density Activated Carbon Block	●	●	●	●		0.5~1 um
	<b>YQF-553</b> remove lead High-Density Activated Carbon Block	●	●	●			0.5~1 um
	<b>YQF-552</b> High-Density Activated Carbon Block	●		●			0.5~1 um
	<b>YQF-1153A</b> YQM-011+YQM-053A Hollow fiber membrane + Add silver and remove lead High-Density Activated Carbon Block	●	●	●	●	●	0.1 um
	<b>YQF-1152</b> YQM-011+YQM-052 Hollow fiber membrane + High-Density Activated Carbon Block	●		●		●	0.1 um
	<b>YQF-1121</b> YQM-011+LTM-021 Hollow fiber membrane + Add silver Granular Carbon Module	●		●			





# Water purifier installation I

## Filter replacement



Remove old filter

Install new filter



1. Insert the filter into the center hole of the filter housing.
2. Shake the filter slightly to confirm whether it is inserted.
3. Push the cap of carbon block.



# Drinking water Q&A

## Q1. Why do you need to DIY your own water purifier filter?

Water purifier filter DIY is not to save money, but to better understand the water you drink.

It can also reduce pollution to the earth.

Each region and different building types actually have different water quality and the way it must be treated; so we must know what kind of water purifier we need and can decide its function and type ourselves.

## Q2. Can the water in our water purifier be drunk raw?

First determine what kind of material the water purifier filter at home is made of.

Generally speaking, the water purifiers available for raw drinking on the market include RO reverse osmosis, UV germicidal lamps, and hollow fiber membranes.

RO reverse osmosis is the best way to purify water at present, but because it is clean, the water production speed is slow, and a water storage tank is usually installed at the back; after a long time, this water storage tank has turned into bacteria. Therefore, it is recommended to replace the last filter element behind the reservoir with a hollow fiber membrane filter element to ensure the final drinking water quality.

In order to achieve the function of raw drinking, some composite filters that claim to have a small volume will install a UV germicidal lamp at the end; but please confirm with the industry whether the UV lamp is sufficient for the instantaneous sterilization time of the water flow.

The hollow fiber membrane filter can filter out impurities above 0.1 microns, including all bacteria. The hollow fiber membrane is matched with an activated carbon filter to meet the requirements of tap water and drinking water, and it does not discharge waste water and save electricity.

## Q3. Can our water ionizer be drunk raw?

Electrolysis and filtration are two different functions.

Electrolysis is to use the neutral water to provide alkaline water for us to drink; but whether it can be drunk or not depends on the filtration system.

The water ionizer in the market has two filtration methods: activated carbon and hollow fiber membrane. If there is only activated carbon filter, it is not recommended to drink raw.

## Q4. The water from the water purifier will have white scale after being boiled, what should I do?

That is because the quality of local tap water is hard, that is, the content of calcium and magnesium ions in the water is high, and calcium carbonate is produced when it is boiled and heated.

Hard water is harmless to the human body. It contains only a small amount of calcium and will not cause kidney stones, but will only affect the taste of drinking.

If you really want to improve, you only need to install an ion exchange resin filter before the activated carbon filter and the hollow fiber membrane (or RO membrane filter).





# Product Recycling

Our product design is based on the goal of reusability and avoiding resource waste, and the shell materials used are all recyclable PP materials.

This YourPure environmentally friendly DIY filter uses a reusable shell and a modular filter material module, allowing consumers to customize their own water filter according to their own needs.

As our commitment to ESG:

We are also always looking for ways to reuse the old activated carbon rods that we replace.

For the largest volume of activated carbon filter media, we encourage everyone to repurpose your activated carbon filter.

Because carbon is so important to plant growth, we don't want it to just be tossed in the trash.

You can use it as a flower pot. In addition to providing the carbon needed for plant growth, the porous structure can also store nutrients and water.

We're asking for your ideas, please share your creativity with us.



## About E-NETWAY

Your best water purification partner.

E-NETWAY is based on NSF42 extensive experience and committed to provide the best price-performance ratio products for horeca, beverage, kitchen, outdoor and bathroom applications and water treatment industry. We could provide a complete turn-key solution, or customized filter cartridge or system.

We provide you can decide on your own functions and types of water purification solutions and components to meet your water purification needs.



Water scale



Lead  
Heavy metal



Chloramine  
Chlorine



Bacterial  
Parasite