IMRITA

WHOLE HOUSE WATER FILTRATION SYSTEM

WHOLE-HOUSE WATER FILTRATION
PRODUCT SERIES

CENTRAL WATER FILTER

IMT-U5

Product Size: 703x152x157mm
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **2000 L/h**
Inlet/Outlet size 3/4"
Water temperature: 5℃～38℃
Working pressure: 0.1～0.4MPa(14.5～58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material:SUS304 Housing
Flush: Manual flush
Packing Size: 755X465X495(mm)(4pcs/ctn)
G.W: 38.60KGS/CTN

IMT-U6

Product Size: 820X152X157(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **3000 L/h**
Inlet/Outlet size:3/4"
Water temperature: 5℃～38℃
Working pressure: 0.1～0.4MPa(14.5～58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS304 Housing
Flush: Manual flush
Packing Size: 894X472X500(mm)(4pcs/ctn)
G.W: 39.20KGS/CTN

IMT-U7

Product Size: 549X277X262(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **3000 L/h**
Inlet/Outlet size: 1"
Water temperature: 5℃～38℃
Working pressure: 0.1～0.4MPa(14.5～58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material:: SUS 304 Housing
Flush: Manual flush
Packing Size: 642X312X320(mm) (1pc/ctn)
G.W: 12.90 KGS/CTN

IMT-U8

Product Size: 679X277X262(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **4000 L/h**
Inlet/Outlet size: 1"
Water temperature: 5℃～38℃
Working pressure: 0.1～0.4MPa(14.5～58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS 304 Housing
Flush: Manual flush
Packing Size: 772X312X320(mm)(1pc/ctn)
G.W; 15.20 KGS/CTN

IMT-U8 PSG

Product Size: 806X290X316(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **4000 L/h**
Inlet/Outlet size: 1"
Water temperature: 5℃ ~ 38℃
Working pressure: 0.1 ~ 0.4MPa(14.5 ~ 58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS 304 Housing
Flush: Auto flush
Packing Size: 902X362X390(mm)(1pc/ctn)
G.W: 19.30 KGS/CTN

IMT-U9

Product Size: 300X300X1260(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **5000 L/h**
Inlet/Outlet size 1"
Water temperature: 5℃ ~ 38℃
Working pressure: 0.1 ~ 0.4MPa(14.5 ~ 58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS 304 Housing
Flush: Auto flush
Packing Size: 395X412X1375(mm)(1pc/ctn)
G.W: 30.80KGS/CTN

IMT-U10

Product Size: 300(L)x300(W)x1450(H)mm
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **6000 L/h**
Inlet/Outlet size: 1"
Water temperature: 5℃ ~ 38℃
Working pressure: 0.1 ~ 0.4MPa(14.5 ~ 58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS 304 Housing
Flush: Auto flush
Packing Size: 420X405X1545(mm)(1pc/ctn)
G.W: 39.50 KGS/CTN

IMT-U12

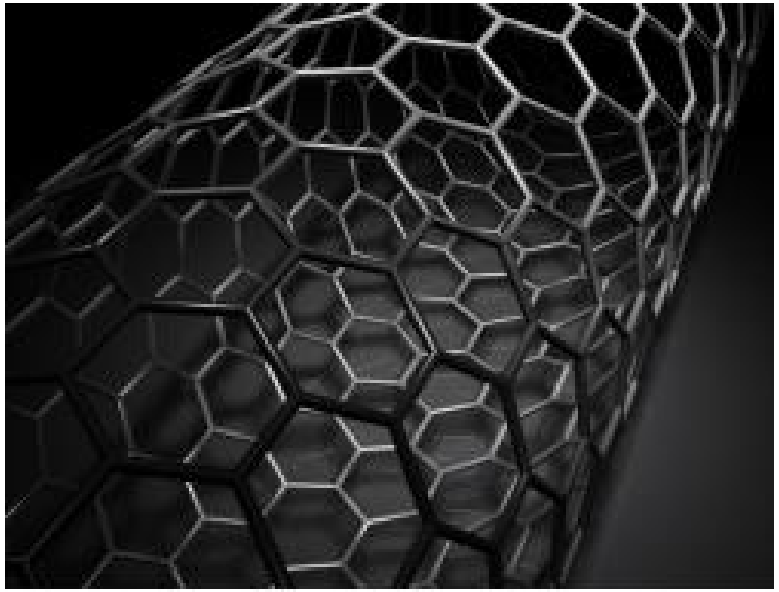
Product Size: 660X449X1491(mm)
Color: Silver
Filtration Accuracy: 0.01μm
Pure water flow: **8000 L/h**
Inlet/Outlet size: 1"
Water temperature: 5℃ ~ 38℃
Working pressure: 0.1 ~ 0.4MPa(14.5 ~ 58psi)
Feed water source: Municipal tap water
Filtration technology: PAN Ultral Filtration Membrane
Faucet: Stainless steel water faucet
Material: SUS 304 Housing
Flush: Auto flush
Packing Size: 790X580X1560(mm)(1pc/ctn)
G.W: 143.00 KGS/CTN

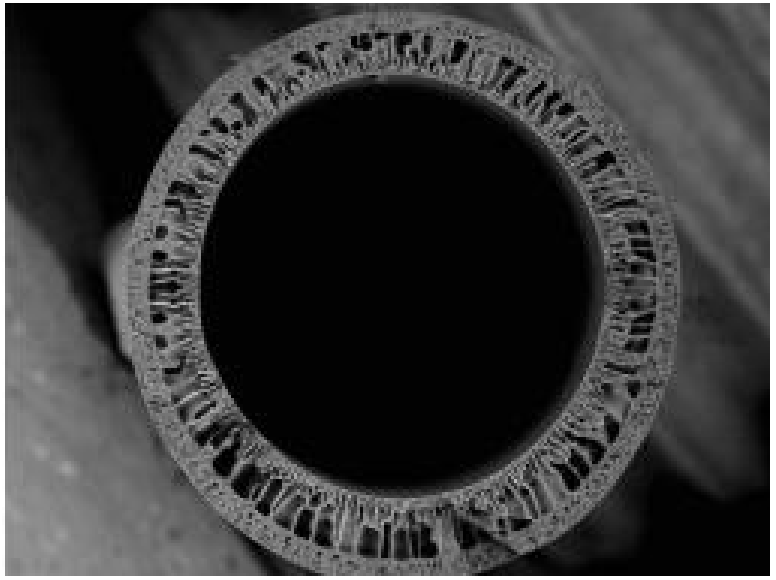
MWCNT-PAN

Carbon nanotubes (CNTS) are a typical nanomaterial with high strength and toughness. Its theoretical value is estimated to be up to 5 TPa, and its strength is about 100 times that of steel.

The weight density is only 1/6 of steel. Using carbon nanotubes as the composite reinforcement of ultrafiltration membrane greatly improves the tensile strength and elastic strain capacity of ultrafiltration membrane, which is stable.

The properties, biocompatibility, anti-pollution performance and mechanical properties show significant advantages, which greatly improves the service life of ultrafiltration membrane.





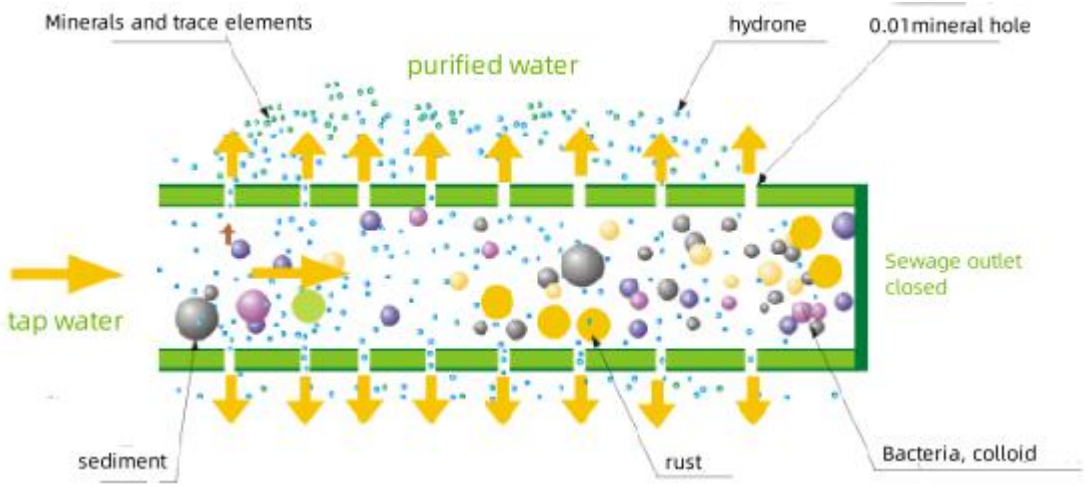
MWCNT-PAN

Ultra filtration membrane technology

Ultra filtration membrane technology is a kind of ultra filtration membrane and the membrane pore size related to the size of the screening process, driven by the pressure difference on both sides of the membrane, ultra filtration membrane as the filter medium, under certain pressure, when the original fluid flow through the membrane surface, ultra filtration membrane surface with many tiny pores allow only water and small molecules through and become through the liquid, and concentrate in the volume is greater than the membrane surface micro aperture that substance is trapped At the inlet side of the membrane, it becomes concentrated liquid, thus achieving the purpose of purification, separation and concentration of the original liquid.

Ultra filtration membrane separation technology, as one of the 21st century high and new technologies, has become a standard of separation process with its obvious characteristics of normal temperature, low pressure operation, no phase change and low energy consumption.

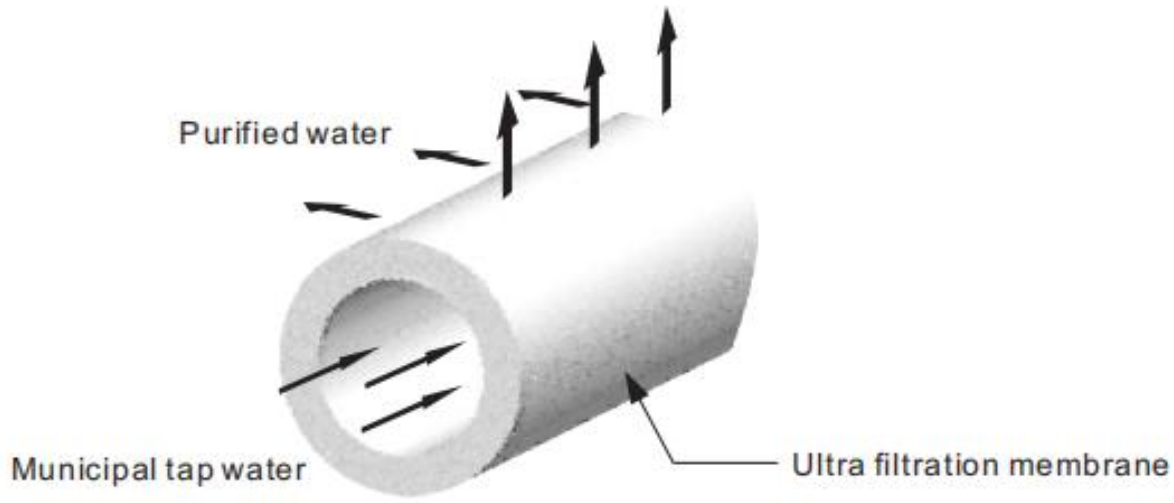
It has been widely used in Europe and The United States and other developed countries and regions, and has become the mainstream technology of deep purification of drinking water. Ultra filtration membrane technology has replaced the traditional separation technology to a large extent to save energy, reduce consumption and improve separation quality.



MWCNT-PAN

Filtration Principle of ultra filtration membrane

In the presence of pressure difference of the ultra filtration membrane on the both sides, when the water flow through the membrane surface, ultra filtration membrane surface with many tiny pores (per meter long ultra filtration membrane silk pipe distribution about 6 billion 0.01 micron pores) allow only water molecules and small molecules by beneficial minerals and trace elements, and the volume is greater than the pore diameter of materials (including sediment, rust, colloid, uspended matter, and pathogenic bacteria and other harmful substances) are intercepted, so as to achieve the purification of tap water.



TWO TYPES OF FILTER ELEMENTS OF CENTRAL WATER FILTER

There are two main types of central water filters in the market, one of which has a filter element of ultrafiltration membrane and the other is activated carbon.

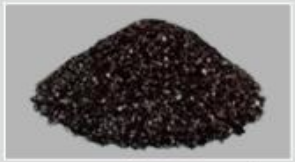
Ultrafiltraion Membrane

Ultrafiltration membrane belongs to the special physical screening principle, the surface is rich in more than 0.01 micropores, with more consistent precision, and effectively filter all kinds of substances greater than 0.01 microns.

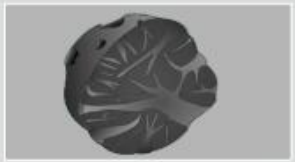
0.01 micron pure physical screening filtration

Activated Carbon

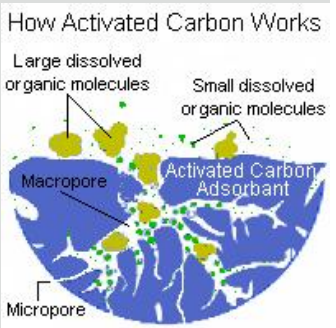
Activated carbon has a gap inside, using the principle of physical adsorption + chemical adsorption, has a good adsorption effect on chlorine and all kinds of pollution.



Loose particle filter element



Physical adsorption filtration



Comparison of Two Filter Elements

	Ultrafiltration membrane	Activated carbon
Accuracy	0.01μm	none
Residual chlorine	Retain residual chlorine	Residual chlorine removel
Pathogenic microorganism	Removal of pathogenic microorganisms	Breeding of pathogenic microorganisms
Blowdown capacity	Pollutant discharge	Non-discharge of pollutant
Service life	≥10 years	about 1 year
Comprehensive cost	Low	High

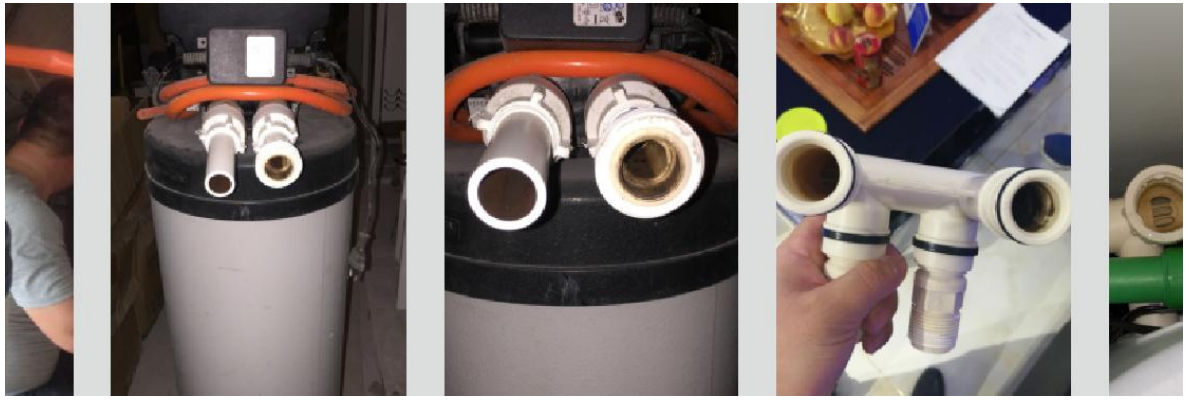
FAQ

1.Q: If you choose high-quality nano-antibacterial pipe or stainless steel pipe, do you not need to install a central water purifier?

A: No, the water flowing out of the antibacterial tube can not meet the standard of direct drinking water, and can not prevent the pathogenic bacteria in the water from entering the pipeline. And can not prevent the inner wall of the pipeline from yellow, black. The antibacterial pipe has a value in the marketing sense, but it doesn't make sense when used. To keep the pipeline clean, sanitary and safe, installing a central water filter is the preferred way.

2.Q: Should the central water filter be ultrafiltration membrane filter or activated carbon filter?

A: In summary, when applied to central water filter, the effect of ultrafiltration membrane is better than that of activated carbon, the service life of the filter is longer, and the comprehensive cost is lower, so recommended to
select ultrafiltration central water filter. After many owners choose activated carbon central water filter, they find that they can not solve the problem of yellow and black pipes, nor can they cope with acute yellow and black water event.



3.Q: What's the principle of the ultrafitration membrane?

Ultrafiltration membrane is based on the principle of pure physical screening. Tap water enters the ultrafiltration membrane tube, and under the action of water pressure difference, the micropores only allow water molecules, beneficial minerals and trace elements to pass through, becoming purified water. And suspended matter, sediment, rust, algae, colloids, macromolecular organic matter, pathogenic bacteria, microorganisms and insect eggs and other harmful substances are trapped in the ultrafiltration membrane tube, and discharged when it flushing.