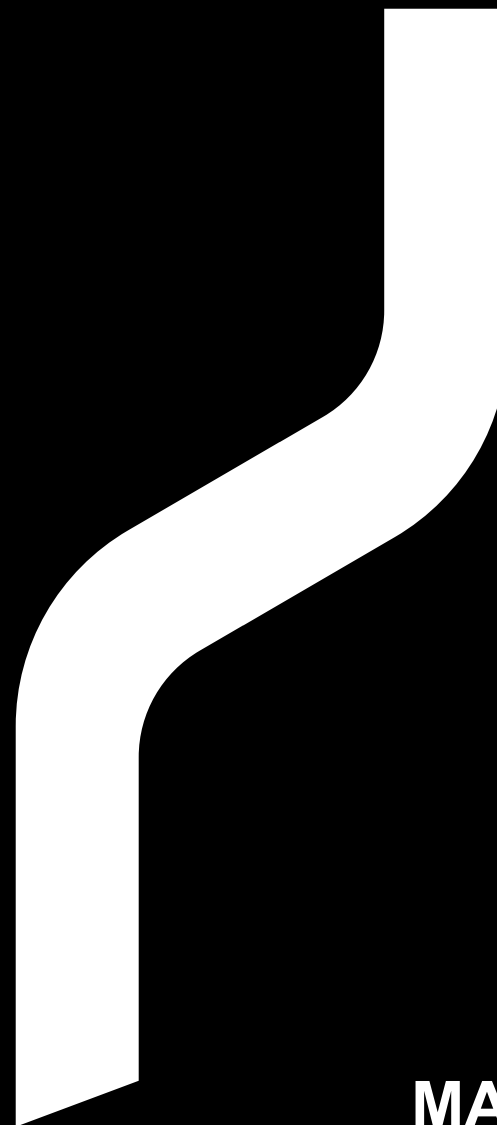


IMRITA
WHOLE HOUSE WATER FILTRATION SYSTEM



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MADE IN CHINA

MANUAL
IMT-D3

THANKS

Thanks very much for choosing IMRITA brand, and be the user of IMRITA.

Before the machine installation, we suggest you to read this manual carefully.

If you have any questions during use, please read this manual carefully or contact us directly.

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Your valuable comments on our products and services are most welcome.

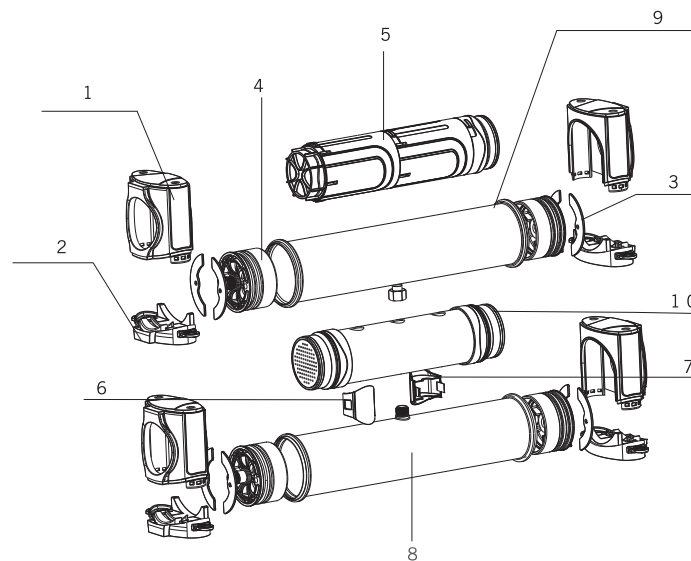
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THE PRINCIPLE OF PERFORMANCE

Structure Diagrams

- | | |
|-----------------|-------------------------------|
| 1. up bracket | 5. activated carbon |
| 2. down bracket | 6/7. cover cap |
| 3. baffle | 8/9. filter housing |
| 4. end cap | 10. ultra filtration membrane |



Pic.1 Structure diagrams

Function & Features

Pure water with sweet taste.

1, Ultra filtration membrane, high filtration accuracy up to 0.01 micron, removes the scale, sediment, rust, colloid, bacteria and other harmful substances in water. also remains the beneficial elements and minerals in water.

2, Deep adsorption activated carbon that can remove the organic compounds and chlorine in water.

Divided output clean water and deep purified water

- Using Seiko "middle" connection technology, to achieve one in more out, quality water supply.

-- Through the quality of water, optimize the distribution of water efficiency of all levels of filter element, prolong the service life of filter element.

Large water flow to meet the daily use

---initial water flow 0.6 m3/h to meet the daily use for using and drinking.

Long service life for UF membrane

- 1, use with PAN material, strong antipollution ability.
- 2, The mirror film making process has high surface finish, anti-fouling and easy to flush.
- 3, Two flush modes: flush and back flush, that can intercept the surface pollutants in time and to prolong the service life of filter cartridge.

Easy for filter cartridge replacement

- baffle fastening design, easy to replace the filter.
- quick bracket connection for easy disassembling and assembling.

Easy for installation

- 1, Stable bracket for bottom of the water purifier, easy to place the purifier to the under sink.
- 2, 1/2" quick connect fitting, easy for pipeline installation.

Product parameters



Product Name: UF Water Purifier	Item No.: IMT-D3
Water Flow: 2.2L/min	Filter Type: UF + C
Temperature: 5°C-38°C	Application: Municipal Tap Water
Filtration Accuracy: 0.01μm	Inlet Pressure: 0.1-0.4Mpa
Product Size: 510×190×283(mm)	

Introduction of filter cartridge

Filter Type	Filtration Accuracy	Material	Qty
UF membrane	0.01μm	PAN	1pc
Activated carbon	10-24 mesh	Activated carbon	1pc

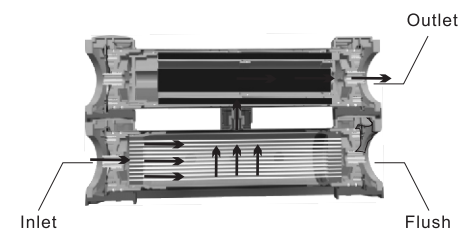
Service life of filter cartridge

With the long-term use of the water purifier, the flow of the filter water will gradually decline. It should be replaced in a fixed period to ensure the water flow.

Filter Type	Suggest to replace(months)	Parts diagram
UF membrane	24-36	
Activated carbon	6-12	

The principle of water production

In the state of water production, the source water enters via the inlet, it flows through the UF membrane and activated carbon filter cartridge in the direction of the arrow successively, finally the purified water flows out from the outlet.



Pic.2 The principle of water production

The principle of deep purified water production

Turn on the deep purified water faucet, the raw water enters via the inlet, it flows through the UF membrane, after UF membrane filtration, it flows to the activated carbon filter, after filtered by carbon filter, finally the purified water flows out from the outlet.

The principle of UF membrane flushing

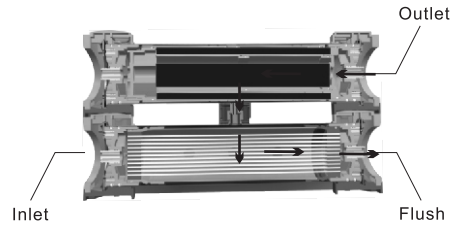
Turn on the flush faucet, and turn off the purified faucet and deep purified water faucet, the purifier is under flushing status, the raw water enters into the UF membrane via inlet, and flushes the pollutants away, and finally drains out from the flush port.



Pic.3 The principle of UF membrane flushing

The principle of UF membrane back flushing

Turn off the inlet, and turn on the flush valve, the UF membrane is in back flush status and to make the water will enter through the outlet; In the state of back flush, the source water enters into the inner of UF membrane from outside under the water pressure, and flushes the pollutants away, and finally drains out from the flush port.



Pic.4 The principle of UF membrane back flushing

INSTALLATION

Installation Notice

- 1, In order to make the water purifier to meet your water requirements (water quality and flow), water purifier's water quality, pressure, flow, temperature should meet the requirements in the product parameters table;
- 2, All the water purifier related accessories such as pipeline, fittings, faucet should comply with ROHS standards.
- 3, Do not install outdoors to prevent freezing and cracking; At the same time, avoid directly sunlight to prevent the plastic shell from aging to fast; If it is installed outdoors, corresponding protective devices must be added.

Installation Steps

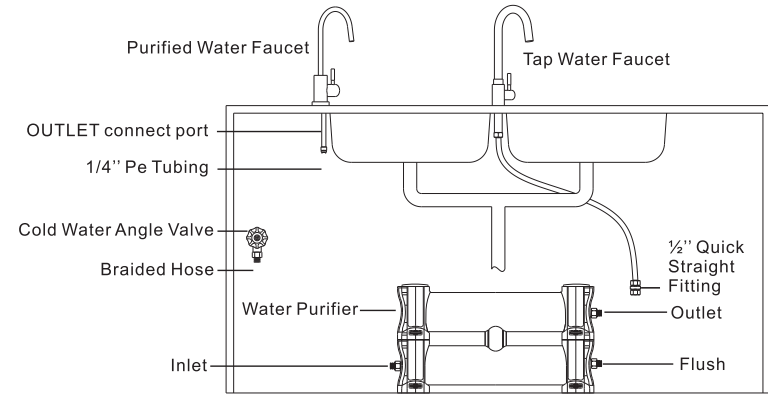
1, Water faucet installation

Please use the electric drill to perforate a hole, the diameter is 30mm. If there is a hole in the sink, please ignore this step. Fix the faucet and install the 1/4" PE tubing connector.

Pipeline connection

- 1, Pick off the end cap of INLET, FLUSH, OUTLET.
- 2, Connect one end of the stainless steel braided hose with the tap water inlet, and other end connects with the water purifier INLET.
- 3, Use 1/4" PE tubing to connect the purified water faucet with the water purifier OUTLET.
- 4, Connect one end of the stainless steel braided hose with the 1/2" quick straight fitting, and other end connects with the water purifier FLUSH port. (As shown in pic.5)

.4.



Pic.5 Pipeline installation diagram

Leakage detecting

After the installation is completed, turn on the inlet valve to connect the tap water; Carefully check the joints, pipelines whether there is water leakage or not.

ROUTINE MAINTENANCE

First use

- 1, Please flush the water purification system according to the following system before first use.
 - 1) Turn on the tap water faucet for flushing 20 minutes and then turn off. Turn on the deep purified water faucet for water production 20 minutes, and turn off faucet till the outlet water becomes clean.
 - 2) Turn off the faucet and leave for 12 hours.
 - 3) Turn on the deep purified water faucet for water production 20 minutes and drains out, then it can be normally use.

Daily flush

- 1) Flush the water purifier when water production reach to 20 liters; Turn on the tap water faucet, turn off the outlet faucet for flushing 30 seconds every time to pro long the service life of purifier.
- 2) Back flush to recover the pure water flow: back flush the water purifier according to Pic.4, turn on the inlet valve for back flush 1 minutes, repeat it 4-5 times.
- 3) It is more effective to turn on the faucet frequently to flush the purifier when flushing.

.5.

Usage Note:

- 1) Please keep the UF membrane wet after installed, it will decline the water production rapidly and could not recover when it is not wet.
- 2) Please flush the water purifier when it has not been used for 3 days.
- 3, Turn on all tap water faucets when the tap water comes back after it stopped running. It can drain out the rust and sands, etc. Then turn on the outlet for water production.
- 4, The water production total volume is related to the water quality, if the water quality is not good, the volume will decline and also that will effect the service life of the filter cartridge.
- 5, The water production total volume also is related to the daily flushing, flush the water purifier usually that can pro long the service life of the filter cartridge.
- 6, Make sure the water inlet valve if turned off when going out for a long time (more than 2 days), that could pro long the service life of the water purifier.
- 7, The pure water flow will decline gradually after long time use of water purifier, but the purified water is still qualified.
- 8, Please turn off the water inlet valve when malfunction; Do not disassemble the water purifier by self.
- 9, If there be any doubts when using, please contact with the dealer or with IMRITA.

Filter replacement

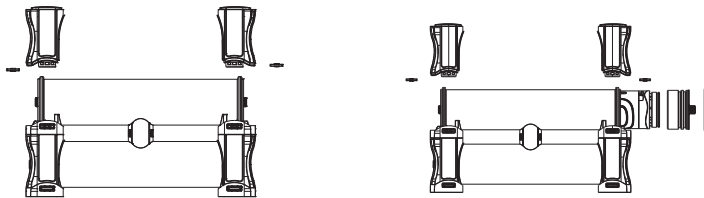
Replacement time:

- 1) If the water flow gradually decreases in the process of using the water purification system, and still cannot meet the requirements after repeated flushing and back flushing, the ultra filtration membrane filter cartridge needs to be replaced.
- 2) The replacement of activated carbon filter usually around 12 months, if finds the water taste is not goods, please replace the filter.

Replacement steps:

Filter replacement

- 1) Take down the inlet, outlet, stainless steel braided hose on the flush port.
- 2) Disassemble the up bracket and down bracket.
- 3) Take down the stainless steel housing, and unscrew the screws on the baffle.
- 4) Take down the end cap, then take out the filter cartridge.
- 5) Put a new membrane into the housing.
- 6) Assembling the machine step by step. (as shown in pic. 9 and pic. 10)



Pic.9 & pic. 10: filter replacement diagram

Malfunctions and Handling

The following table is a list of possible malfunctions and their causes, please refer to their general troubleshooting methods.

Malfunction	Troubleshooting	Handling
Leakage of the joints of the system	The O ring has not been placed or not placed well in the inlet straight fittings.	Put the O ring in right position.
	The stainless steel braided hose's ½" nut is unscrewed or the spacer is not in the right position.	Put the spacer in right position and screw the nut.
Leakage in the upper cover and filter housing of the system	The upper cover is not tightened.	Tighten the upper cover.
	The sealing ring is damaged or aged.	Replace a new sealing ring
There is some off odor in purified water	The protective liquid remains when first use	Please flush the system according the first use requirement
	The system hasn't been using for a long time	Turn on the outlet or flush valve for flushing
	The smell of tap water is too bad	Add an activated carbon filter cartridge
The purified water flow decrease	Bad quality of the inlet water	Flush and back flush the system several times ; or add a pre filter system.
	The inlet pressure or flow is too low	Adopt pressurization measures
	The inlet temperature is to low	It is normal phenomenon.

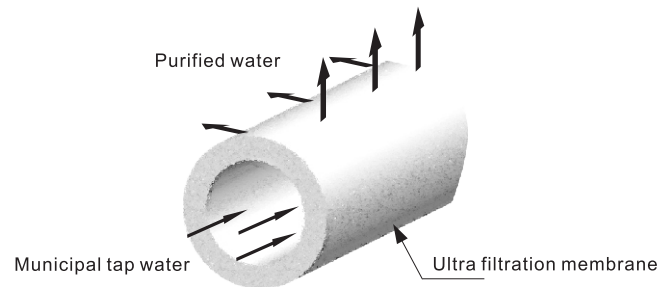
APPENDIX

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.

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, suspended matter, and pathogenic bacteria and other harmful substances) are intercepted, so as to achieve the purification of tap water. (As show in pic.13)



Pic.11 Filtration Principle of ultra filtration membrane