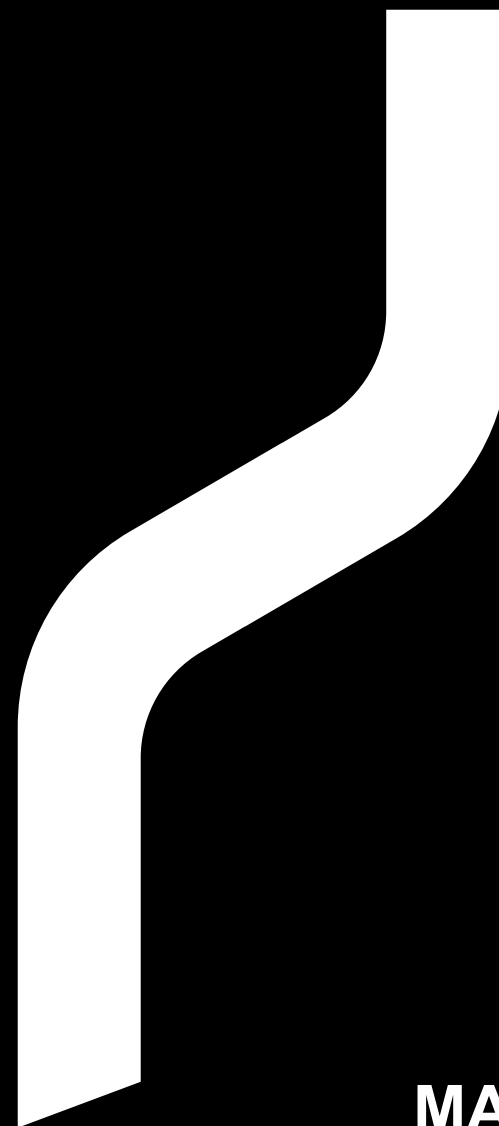


IMRITA
WHOLE HOUSE WATER FILTRATION SYSTEM



MANUAL
IMT-U9/U10

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MADE IN CHINA

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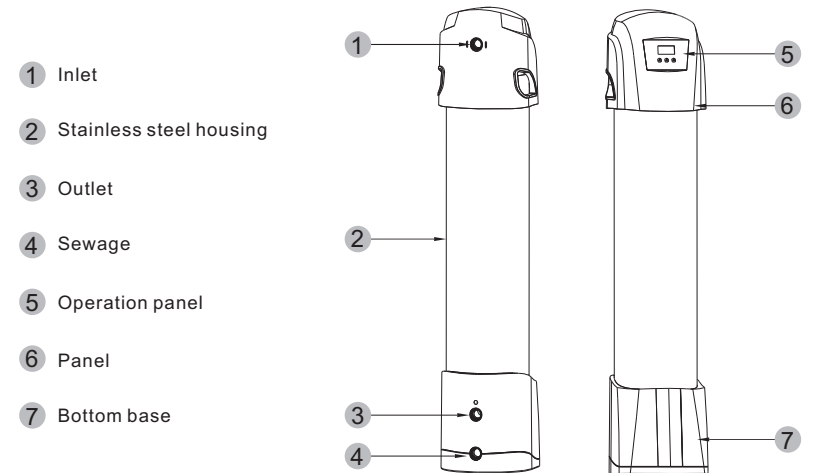
Your valuable comments on our products and services are most welcome.

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THE PRINCIPLE OF PERFORMANCE

Structure Diagrams



Function & Feature

Luxury and noble design

Stainless steel wire drawing surface grain processing, high-grade material selection.

Easy using operation panel

Full touch sensor switch, LED screen display, intuitive and convenient operation.

Intelligent control system

Intelligent control of water making and flushing process, save more time and effort.

Large water flow

It can fully meet the requirements of the flow of drinking water for the whole house, such as duplex large house or villa.

Water quality is clean and safe

The high precision ultra filtration membrane separation technology can remove sediment, rust, colloid and pathogenic bacteria;

Comply with the relevant national standards, while retaining the original minerals and trace elements in the water.

Product Parameter

Product Name: Whole House Central Water Filter Purifier	
Item No.: IMT-U9	Filter type: Ultra Filtration Membrane
Flow Rate: 26L/min	Filtration Accuracy: 0.01μm
Rated Power: 1W	Voltage/Frequency: 110-220V~50/60Hz
Anti Electric Shock Type: III	Inlet Pressure: 0.1-0.4MPa
Temperature: 5°C-38°C	Application: Municipal Tap Water
Product Size: 300x320x1260(mm)	

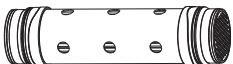
Product Name: Whole House Central Water Filter Purifier	
Item No.: IMT-U10	Filter type: Ultra Filtration Membrane
Flow Rate: 28L/min	Filtration Accuracy: 0.01μm
Rated Power: 1W	Voltage/Frequency: 110-220V~50/60Hz
Anti Electric Shock Type: III	Inlet Pressure: 0.1-0.4MPa
Temperature: 5°C-38°C	Application: Municipal Tap Water
Product Size: 300x320x1450(mm)	

Introduction of filter cartridge

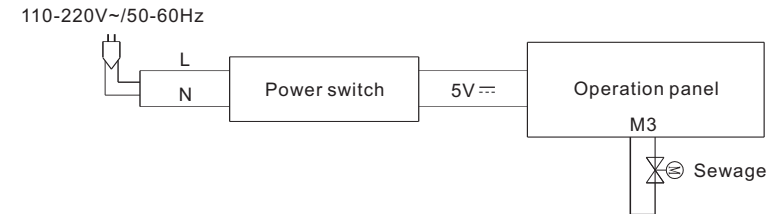
Type	Specification	Material	Qty
Ultra Filtration Membrane	0.01μm	PAN	1 pc

Period of filter cartridge replacement

With the long-term use of the water purification system, the water flow will gradually decline, please replace the filter cartridge regularly in order to ensure the water flow reaching the standard.

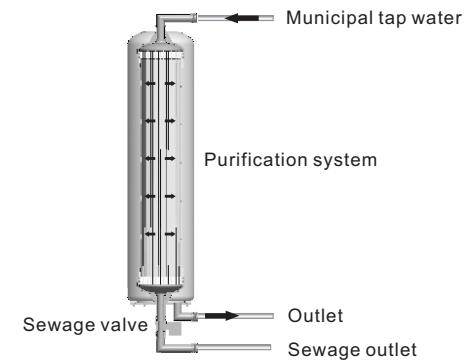
Type	Suggest to replace(months)	Parts diagram
Ultra Filtration Membrane	24-36	

Electrical diagrams



Water Production Principle

Turn off the sewage port when in water production, as pic.2 shows: the source water (tap water) flows via inlet, then flows through ultra filtration membrane to intercept the sands, rust, colloid, pathogenic bacteria, etc. Also retaining the original minerals and trace elements in the water at the same time, and the purified water comes out from the outlet.

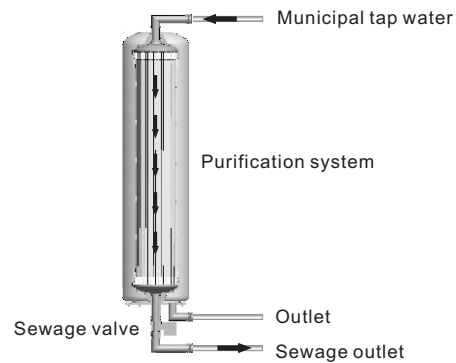


Pic. 2: water production principle

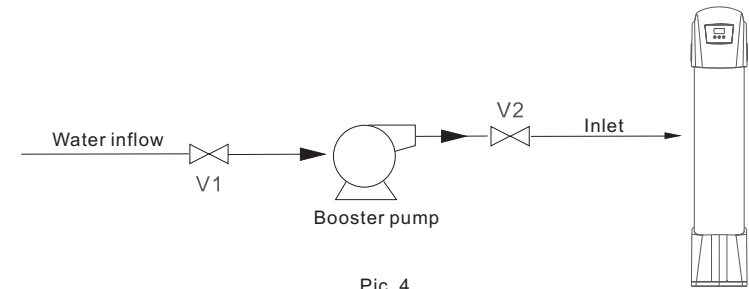
Flush Principle

During the use of the water purification system, the pollutants left by the adsorption and load of the membrane are collected in the water purification system (attached to the inner surface of the ultra-membrane). If not discharged in time, it will be easy to make the water purification system become a secondary pollution. At the same time, the water production of the water purification system is continuously decreased due to the river contamination attached to the surface of the ultra filtration membrane and blocked the micro pores of the ultra filtration membrane, so that the water purification system should be flushed during the period to extend the service life of the water purification system, and the sewage valve is opened under the flushing state.

As shown in pic. 3 below: Tap water flows in through the water inlet, and the water directly rushes through the ultra filtration unit pipe to the sewage outlet, flushing off the pollutants attached to the wall of the ultra filtration tube and discharging away through the sewage outlet.



Pic. 3: flush principle



Pic. 4

7. Water purification system all pipelines, joints, faucets and other wading accessories, should meet the national health standards;

8. Do not install it outdoors to prevent freezing and cracking of ultra filtration membrane. When installing it on corridors or balconies, appropriate protective measures should be taken to prevent sun and rain;

9. Do not block the sewage pipe or close the external ball valve for automatic type. The sewage pipe and sewage should have a gap, sewer or floor drain to keep drainage smooth;

It should be close to the wall and straight when connecting the pipes. After laying pipes, fix the pipes on the wall with a fixing bracket.

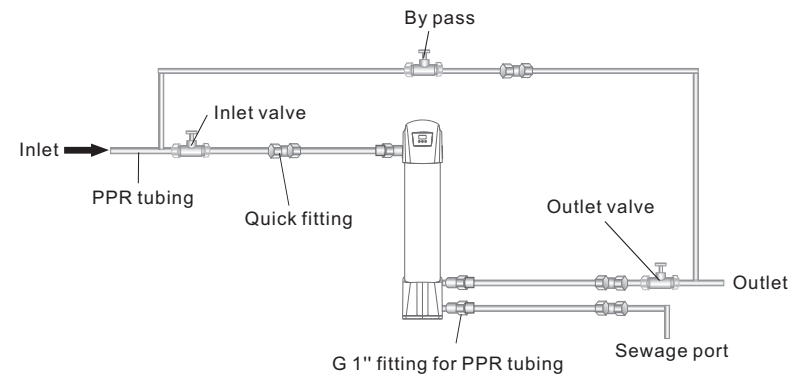
INSTALLATION INSTRUCTION

Installation Notice

1. Tilt or horizontal placement of the system is strictly prohibited during transportation, installation and use.
2. The floor of the system should be installed flat, bearing capacity is greater than 300kg /m², there should be power supply interface, water inlet and outlet interface, and there should be drainage or floor drain to avoid pollution.
3. In order to make the water purification system meet the requirements of water quality and demand, the water quality, inlet pressure, inlet flow and inlet temperature of the water purification system should meet the requirements of parameters in the table.
4. The single-phase AC power supply of 220V/50Hz must be used, and the socket must have reliable grounding wire to use;
5. If the inlet water quality is not municipal tap water, a pre filter filtration system needs to be added.
6. The inlet water pressure is generally required to be between 0.1-0.4mpa. If the inlet water pressure is too small, less than 0.1mpa for a long time, it is necessary to install a booster pump (as shown in pic 4). When the inlet water pressure exceeds 0.4mpa, a pressure reducing valve should be installed for decompression.

Installation Steps

1. Take down the end cap of water inlet, water outlet and sewage port of water purification system;
2. Connect pipes as shown in the following pipe installation drawing: (as shown in pic.5 below).



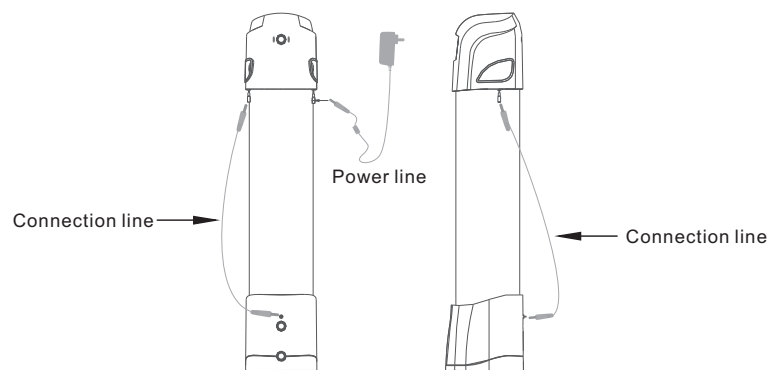
Pic. 5 installation diagram for water purification system

3. After installation, check whether there is water leakage at each joint.

USAGE & MAINTENANCE

First Use

- 1.Connect the power adapter according to pic.6.
- 2.Please flush the central water filtration system when first use to flush the protective liquid of the membrane.
 - 1) Connect with the power supply,turn off the outlet valve,press " MENU"+"SET" for 3 seconds at the same time to start the system; Then press "SET" for 3 seconds for manual flush,continuous for more than 30 times.
 - 2) Turn on the outlet valve for water production 20 minutes,then drain out.
 - 3) Turn off the outlet valve, and place the system for 12 hours.
 - 4) Turn on outlet valve for water production 20 minutes,then drain out; Repeat this steps for 4 times, then the system could be normal used.

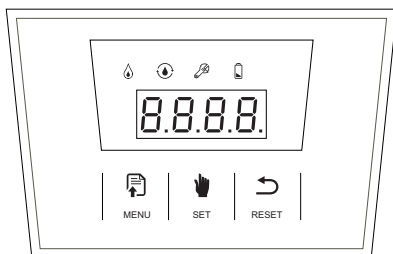


Pic. 6

Daily Use

Panel Keys and its function

Three Keys:"MENU", "SET", " RESET" (as show in pic. 7)



Pic. 7

1.Starting up & Water production

Press "MENU"+"SET" for 3 seconds at the same time to start the system, it will in water production status.

2.Manual flush function

Press "SET" for 3 seconds to entry into manual flush status,"RESET" lights up,LED screen displays time count down; It will return back to water preparation status automatically after 5 seconds flushing. Press "SET" again during flushing.,it will stop flush to entry into water production status.

3.Maintenance functions

"E1" : indicates valve closing failure, "E2" : indicates that the valve is open and fails. Press "MENU"+"SET" for more than 3 seconds to eliminate "E1" and "E2" alarm,and automatically entry into self-checking program.

4.Filter cartridge reset

"E0" indicates the filter cartridge is expired; Press "REST" for more than 3 seconds to reset the filter cartridge,the buzzer "beeps" at the same time for 3 seconds.

Parameter Setting

Remarks:Users who are not professional installation and maintenance personnel of the company should not enter the setting interface to change parameters without authorization.

Press " MENU" for 3 seconds to enter into parameter setting,press "MENU" for function switching,and after finished,press "MENU" for 3 seconds again to save it and exit the parameter setting. Under the parameter setting, the " MENU" stands for parameter setting,"SET"stands for digit position switching,"RESET" stands for the number adjustment.

1.Current time setting

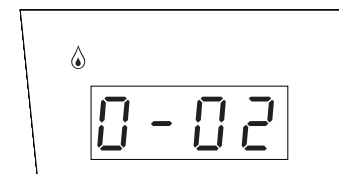
12(hours) :00(minutes): Hours are set to 1-hour increments, minutes are set to 1-minute increments, and time is set to 24 hours. (As shown in pic. 8)

2.Flushing time setting

0-02("0" stands for serial number,"02" stands for adjustable time; Set for 1 hour as the unit of increasing cycle, time set for 24 hours system, the default is 0-0 2, that means 00: 20am. (As shown in pic. 9)



Pic. 8



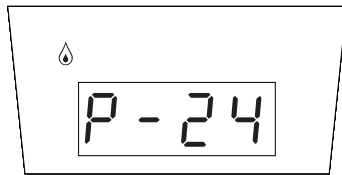
Pic. 9

3.Flush interval setting

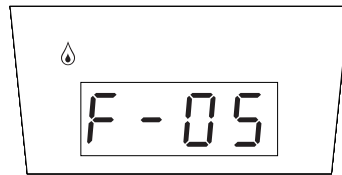
P-24(hours),("P" stands for serial number, "24" stands for adjustable time; The time is set as 1-second incrementing cycle, the adjustment range is 0-99 hours, and the maximum time is set as 99 hours.(As shown in pic. 10.)

4.Flush time setting

F-05(seconds),("F" stands for serial number,"05" stands for adjustable time; The time is set as 1-second incrementing cycle, the adjustment range is 0-99 seconds, and the maximum time is set as 99 seconds. (As shown in pic. 11.)



Pic. 10



Pic. 11

5.Default Parameter Comparison Table

Current time setting: 12:00 (set current time)

Flush time setting: 0-02(automatic flush the system at 00:20 every day)

Flush interval setting: P-24 hours(Restart automatic flush the system every 24 hours)

Flushing time setting: F-05 seconds (flush continuous 5 seconds.)

Usage Notice

- 1.Frequent flushing can effectively prolong the service life of water purification system.
- 2.The rated total water volume of the water purification system has the relations with the inlet water quality; If the inlet water quality is better, the rated total net water will rise, on the contrary, if the water quality is poor, the rated total net water will decrease, the corresponding filter service life will be shorter.
 - 1)With the long-term use of the water purification system, the water flow will gradually decrease, but the water quality is still qualified.
 - 2)If the water purification system has not been used for more than three days,please flush it before reusing; It is recommended to manually flush for more than 10 times, then turn on the outlet valve 10 minutes for water production and discharge it.
 - 3)If the water purification system has not been used for more than 1 months or 3 months,it is recommend to manually flush for more than 20 times, then turn on the outlet valve 10 minutes for water production and discharge it.

4)The water purification system should always keep the wetting state in the ultra filtration membrane after use. After the ultra filtration membrane filter element dries, the water production will sharply decrease and cannot be recovered.

5)When going out for a long time (more than 1 day), make sure that the water inlet valve is turned off, so that the water purification system is in an unconfined state, which can prolong the service life of the water purification system and prevent unnecessary risk loss.

6)Replacement of filter cartridge should be carried out by local retailer or under the guidance of local sale service professionals.

7)When the water purification system fails, please immediately turn off the tap water inlet valve and turn off the outlet valve. Do not disassemble the water by oneself.

8)Please call the customer service if find anything unusual or unknown in the process of using this water purification system.

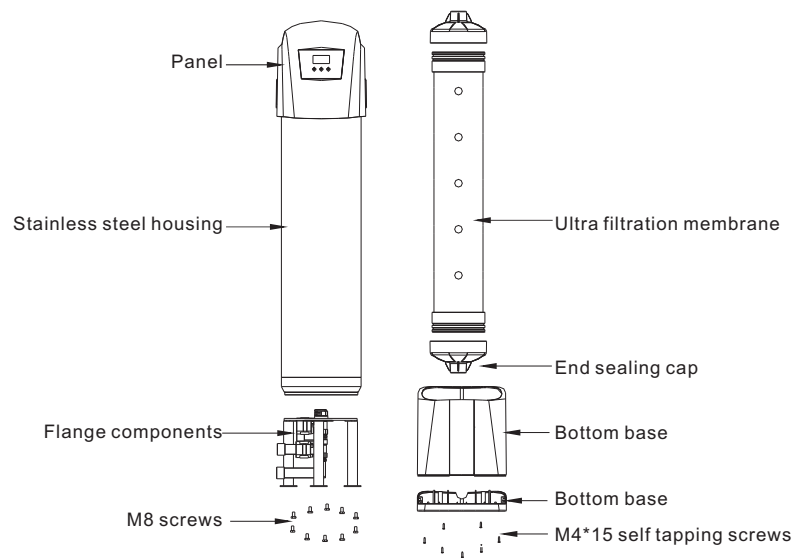
Storage Notice

- 1.Store in ventilated and cool place.
- 2.It can be sealed for one year before the first use. After one year, it should be re-sealed for sterilization. Please consult the customer service department for details.

Filter Cartridge Replacement

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.(As shown in pic. 12).

- 1.Turn off the inlet valve and outlet valve of the water purification system,turn on the by pass valve.
- 2.Unscrew the 7pcs M4 self tapping screws on the bottom base,and disassemble the bottom base.
- 3.Unscrew the 10pcs M8 screws on the flange components of the bottom base,disassemble the bottom base and flange components.
- 4.Take the expired filter cartridge,and disassemble the end sealing cap of it.
- 5.Replace a new one,and assemble the water purification system.
- 6.Please flush the system according to the first use steps.



Pic. 12

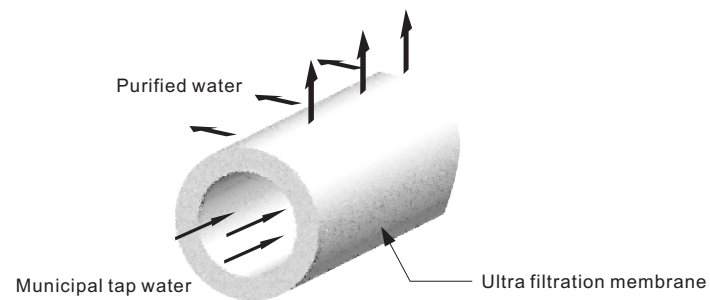
APPENDIX

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. 13

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
LED screen did not display	The power supply or connector is not properly plugged in	Plug it back in
	Display screen damage	Replace a new LED screen
Leakage of pipeline	The sealing ring of the electric valve is twisted or damaged	Restore the sealing ring or replace a new one
It automatica flushes when water using	The sealing ring of the electric valve is twisted or damaged	Restore the sealing ring or replace a new one
The purified water flow decrease	The pressure of tap water is low	Adopt pressurization measures
	Bad quality of the inlet water	Add a pre filter system.
	Electric valve is damaged,the purifier is draining all the time.	Replace a new control panel or gearmotor.
	The inlet temperature is too low	It is normal phenomenon.
E8	The filter cartridge is expired.	Press"RESET" to restore the filter cartridge
E1	Electric valve is turned off	Replace a new control panel or gearmotor
E2	Electric valve is turned on	Replace a new control panel or gearmotor

PACKING LIST

Central Ultra Filtration Water Purifier	Power Adapter
86N Fitting	Manual

