

Installation & Maintenance Manual

Ro-50G Ro-100G
Ro-75G Ro-50/100G
Hexagonal

www.purewatercare.com

Pembelian melalui:

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Water Treatment Management

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Brief Introduction

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Respected customers:

Thank you for purchasing the RO water purifier.

The water purifier in your possession now is in the leading position among products in the world water treatment fields. The pure water it produces is not only drinkable but also good for your health.

For the purpose that the machine is properly installed, utilized and maintained so that it can work in its best condition to ensure the constant supply of pure water, we suggest that you read this manual in details and follow our advice before installation of the machine.

If you have any difficulty in installing or using the machine, please contact the local dealer who will send technicians to help you.

Packing List

1. RO Main Machine (1 set)
2. Pressurized Water Tank (1 piece)
3. Tubes(1 roll)
4. Components Bag (1 piece)
5. Instruction Manual (1 piece)
6. Warranty Card&Certificate (1 set)
7. Goose-necked Faucet (1 piece)
8. Housing Wrench (1 piece)

Notes:

1. RO membrane can be packaged respectively and installed by the customers themselves
2. In the components bag are: feed water connector,tank ball valve, feed water valve, small bracket,inserts(5pcs) and caps(5pcs).

Introduction To Ro Water Purifier

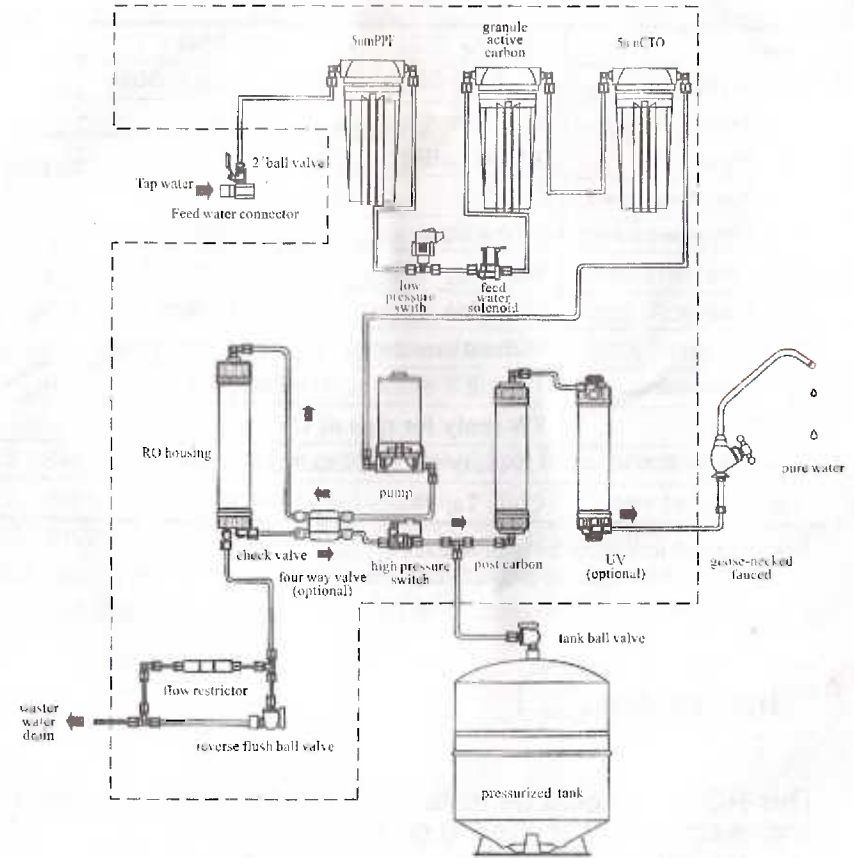
The RO water purifier unit is a five-stage filtration pure-water equipment manufactured with high-tech reverse osmosis technology. After the source water is treated in three pretreatment filters where suspended sediments and other substances bigger than 5 micron are filtrated in the first stage PPF filter and foul smell and byproducts of chlorine are get rid of in the second granule active carbon and the third stage 5um CTO core which could remove even tinier sediments. Then the water enters the fourth stage--reverse osmosis membrane. As the diameter of the RO membrane is no longer than 0.0001 micron, there is no possibility for a germ or a virus to pass through the membrane unless the former is shrunk by 1/4000 and the later by 1/200. Therefore, no tiny impurities, harmful dissolved solids, germs or viruses can penetrate the highly delicate RO membrane which can part the water and the impurities or contaminants to be discharged through the drain pipe. The whole process is completely automatic, and the pure fresh water produced with this RO technology is free from germs and contaminants, rich in oxygen and taste good. In addition, it can activate cells and improve the immunity of the body due to its strong capacity of penetration and dissolution.

Functions & Characteristics

The adoption of RO membrane and the application of the most advanced RO water treatment technology ensure the elimination of such harmful substances as tiny impurities, colloids, organic matters, heavy metals, dissolved solids, bacteria and viruses while retaining the water molecule and dissolved oxygen. The removal rate can reach over 96%.

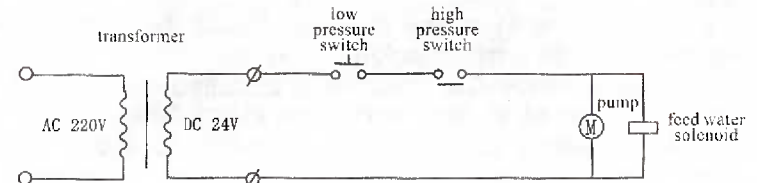
- The pump we produce has the characteristics of low noise, little vibration, long life and high quality.
- The auto flush function can prolong the life of RO membrane.
- The whole process is automatic in producing water, stopping, and reverse washing(option).
- Option: type with UV disinfection---more safety should be ensured with the utilization of UV light.

Main Components & Charts



Note: In the virtual chart is the RO main machine, no need to install four way valve if the feed water solenoid has already been installed.

Electrical Circuit Chart:



| Model | RO-50G | RO-75G |
|--|---------------------------|----------------|
| Rated Voltage | AC 220V 50Hz | AC 220V 50Hz |
| Rated Power | 28.8W | 28.8W |
| Water Pressure | 0.15-0.4MPa | 0.15-0.4MPa |
| Feed Water Temperature | 5-45°C | 5-45°C |
| Max. TPS of feed water | ≤ 1000PPM | ≤ 1000PPM |
| Max. GPD | 50gallon 189L | 75 gallon 283L |
| Tank Capacity | 3.2gallon | 3.2gallon |
| Ways of flush | Manual or auto | Manual or auto |
| Type of Protection against electricity shock | Type II | Type II |
| UV Power | 8W (only for type of UV) | |
| Wass of Disinfection | UV (only for type of UV) | |
| Applicable feed water | Civic Tap Water GB5749-85 | |

Note: Changes may occur for improvement of products,
Accordance with the product's nameplate.

Installation

This RO unit should be installed by professional serviceman and users are not allowed to do it by themselves.

The procedures are as the followings:

1. Shut off the feed water valve of the tap water, open the components bag and connect the feed water ball valve with the feed water connector, then connect the feed water connector onto the tap.
2. Drill a hole (12mm) in the downcomer so as to connect the drain tube
3. Drill a hole (12mm) on the sink and install the faucet or fix it onto the wall with small bracket.
4. Make sure whether the machine is installed on the desk or under the sink so as to determine how many holes should be drilled. (for reference only, install it according to the practical situation)

(1) The RO main machine and the pressurized water tank---if both under the sink no holes needed. Four holes (6mm) should be drilled for feed water tube, tank tube, purified water tube and drain tube if the main machine is to be installed on the desk.

(2) The RO main machine and the dispenser---three holes (6mm) should be drilled for the feed water tube, drain tube and the overflow tube (on the dispenser)

(3) The RO main machine, the pressurized water tank and the dispenser---two holes (6mm) should be drilled for purified water tube and overflow tube if the main machine and the tank are to be installed under the sink; Four holes (6mm) should be drilled for the feed water tube, tank water tube, drain tube and the overflow tube if the tank is to be installed under the sink.

(4) Silica gel should be used to seal the hole when tubes are connected in case of leak.

(5) Install the tank ball valve onto the pressurized tank and connect it with the tube.

(6) Put the inserts into the tube and then connect the tube.

Testing

After making sure the water circuit is on the operation, ensure:

1. whether the electric socket has electricity.
2. whether there is tap water.

The testing procedures are as the followings:

1. Turn on the tap water feed water valve and the feed water ball valve, shut off the tank ball valve and turn on the goose-necked faucet

2. Put the plug in the electric socket and the pump will start. After a while the waste water will be drained out. 1.5 minutes later, the machine will be on the state of producing water and the pure water will leak from the faucet soon. After 10-20 minutes, turn on the tank ball valve, and the water will pour into the tank. Drain the treated water 2 times out of the tank when initially use the machine.

Note: (1) On the initial use, little amount of black water may leak out from the faucet, flush it continuously.

(2) On the initial use, TDS could be a little bit higher, flush it continuously.

Special Notice

1. Please read the instruction manual carefully before using the machine and install, use and maintain it in accordance with the manual strictly.
2. The main components of the machine are made of plastic, the user should observe the machine's working situation often to ensure its safety.
3. The duration of the filters we suggested are refer to home use, civic tap water and should be adjusted according to the practical water quality and use.
4. The inside of the machine is equipped with many kinds of wiring. To insure the user's safety, all the filter cartridges replacing and maintain shall be handled by the professionals.
5. The machine shall not be put at a rather dank place to avoid the rust of the metal parts. Also, the machine should avoid sunlight, rain directly.
6. Please do not shake the machine casually. Do not scrub away the machine with water to avoid destroying the inner parts and getting an electric shock caused by leak of electricity and water.
7. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

8. The supply cord cannot be replaced. If the cord is damaged, the appliance should be scrapped.

9. Use the new tube discreteness attached by the appliances, and the old tube discreteness can not be used repeatedly.

Maintenance

1. To ensure the quality of the pure water, the filters should be replaced periodically. Duration of the filters varies according to the quality of the source water. Generally speaking, it is suggested that home and civic water consumption should replace the filters indicated as below:

First stage PP filter (5 UMM) 3-6 months volume of filtration is about 9 tons
Second stage Carbon block filter 6-12 months volume of filtration is about 12 tons
Third stage RO membrane 1-2 years volume of filtration is about 108 tons
Forth stage Post inline carbon filter 12 months volume of filtration is about 12 tons

2. All the replacement of filters should be accomplished by professional serviceman, if the following situations occur, the replacement of the filters should be considered:

- a. The quality of the treated water worsen and the taste is not good
- b. The treated water flow volume lowered apparently (except for the drop of the feed water temperature).
- c. The leak of water too fast, the water is full less than 1 hour, maybe the RO membrane is broken.
- d. The remove rate of membrane is lower than 75%, and it indicates that the usage of membrane is mature. (Remove rate of membrane = $\frac{\text{source waters TDS} - \text{pure waters TDS}}{\text{source waters TDS}} \times 100\%$)

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| Troubles | Possible cause | Ways to deal with |
|--|---|--|
| The machine does not work Pump does not work Can not produce water | No electricity | Inspect the supply electricity or its outlet |
| | Lower feed water pressure or feed water stopped | Check the feed water pressure |
| | Low pressure switch can not be worked | Replace or repair |
| | Transformer burned | Replace or repair |
| | Pump's problem | Replace or repair |
| Pump work normally but no water out | No pressure in the pump | Replace or repair |
| | Feed water solenoid valve out of work (no waste water, no pure water) | Replace or repair |
| | Clog in the pretreatment filters | Replace the filters |
| | Clog in the membrane | Wash or replace the membrane |
| | Clog in the check valve (only waste water, no pure water) | Replace |
| | Clog in the post inline carbon filter | Replace |
| Machine works, on the state of auto flushing, pump sometime works, sometimes not | Lower source water pressure | Raise the pressure of source water |
| | Clog in PP filter | Replace the PP filter |
| | Problem in electric circuit | Check and repair the electric circuit |
| The machine stopped, but waste water dose not stop | Solenoid valve out of work, and can not stop the water effectively | Replace |
| | Check valve leak pressure (the volume of waste water is rather small) | Replace |
| | Source water pressure is higher than high pressure switch | Adjust the source pressure |
| The water is full, but the machine does not stop or repeatedly start | Check valve out of work | Replace |
| | Work (or the hydraulic pressure valve out of work) | Replace |
| | Insufficient pressure in the system | Check whether the inner parts leaks |

| | | |
|---------------------------|--|--|
| Little purified water out | Clog in the pretreatment filters | Replace the pretreatment filter |
| | Clog in RO membrane | Replace RO membrane |
| | Problem with Flow Limit | Replace Flow limit |
| | Insufficient pressure in the pump | Measure the water pressure out of the pump and replace the pump |
| Leak of electricity | The pressure of power supply is too high | Makes the machine work under normal power pressure |
| | Problems with the connection | Connect correctly, must use the three pin socket with ground wire and switch with electricity protection |

After-sale Service

1. If the user finds any problem of the machine, shall contact to the local dealer or repair department. Please do not deal with the machine by yourself; otherwise the user will loose the right of warranty.
2. Warranty duration: one year for the machine, the consumption material is out of the warranty duration. Within the duration, the company will take charge of any problems of the machine. Exceed the duration, reparation fee and components fee will be charged
3. Free reparation is based on warranty card, certificate and sales invoice
4. Please keep this installation manual, all card and certificate.