

User Manual

Reverse Osmosis Water Purifier System



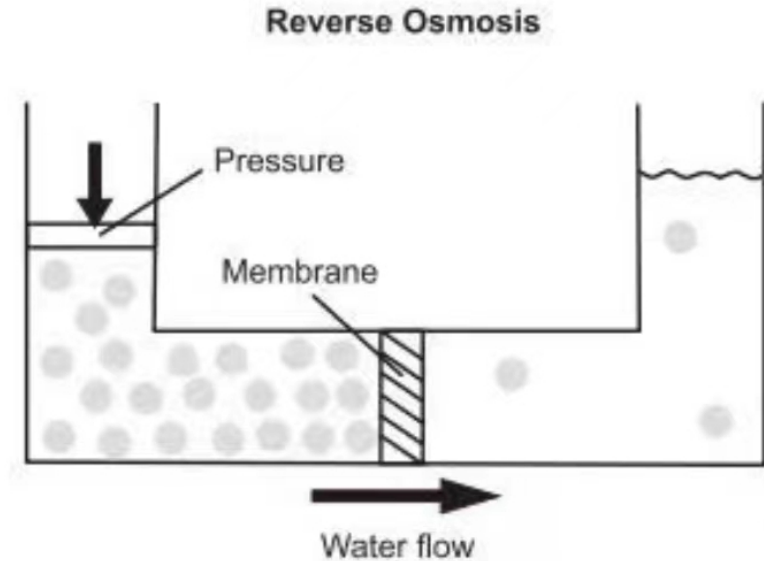
Be sure to read the instructions carefully before installation and usage, and keep them in good condition after reading, which will help you in normal installation and proper utilization to make the water filter offer better efficiency and serve you in a more reliable manner.

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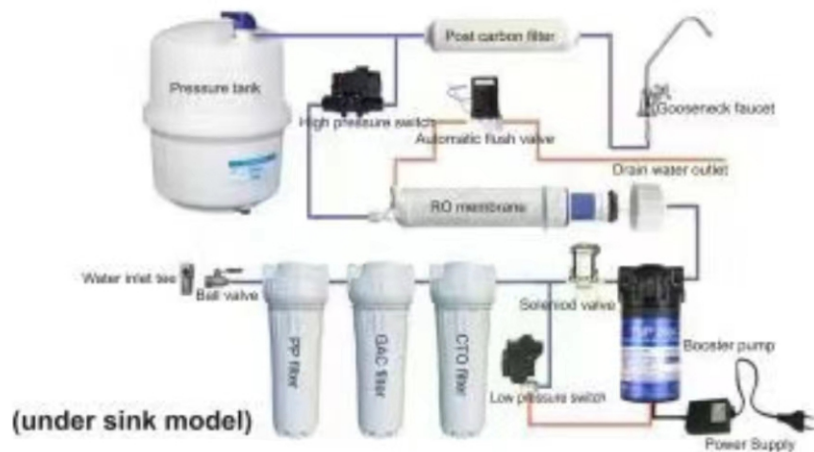
What is the reverse osmosis

Reverse osmosis was originally designed to make sea water drinkable for the navy. It is ideal for anyone on a low sodium diet. An RO membrane has a pore size much smaller than bacteria virus, or the cryptosporidium parasite. When functioning properly it will remove all microorganisms from tap water and produce sterile water. Reverse osmosis is the reversal of the natural flow of osmosis. In a water purification system, the goal is not to dilute the salt solution, but to separate the pure water from the salt and



Our RO water purifying system, using reverse osmosis principle, purifies feed water. And the quality of purified water is up to the standard of The hygienic safety and function evaluation for drinking water quality-reverse osmosis treatment plant (2001).

Work principle and process diagram:



Stage 1:PP (Polypropylene)filter

PP filter pore diameter of 5 micron, which can effectively remove sediment, rust and other coarse solid impurities.

Stage 2:GAC (granular active carbon) filter

Granular activated carbon has high adsorption, it can absorb chlorine, odor, color and other substances in water.

Stage 3:CTO (Compressed activated carbon) filter

On the basis of GAC filter adsorption of the second stage, deeply filtration of heterochromatic, odor, hydrogen and halogenated organic harmful substances, effectively improve water taste, with the usage of a compression of micro porous activated carbon, hold very fine particles, colloidal suspensions, etc., ensure the water reach RO membrane required inlet water condition, effectively extending the life of the RO membrane.

Stage 4: Reverse Osmosis membrane

RO membrane, with pore diameter of 0.0001 micron, with reverse osmosis principle, removing viruses, bacteria, toxins, heavy metals and other hazardous substances.

Stage 5: Post active carbon filter

Effectively improve the taste of water

Specification

Power supply	220V 50Hz				
Rated power	24-96W				
Applied water	up to standard of The hygienic safety and function evaluation for drinking water quality- reverse osmosis treatment plant(2001)				
Working temperature	5°C-45°C				
working pressure	0.1-0.5Mpa				
Rated water production	7.8L/h	15.6L/h	32.0L/h	47.0L/h	63.0L/h
Pressure tank storage capacity	3.2 gallon	11 gallon	11 gallon	11 gallon	11 gallon
Rated total water production	≥2000L	≥4000L	≥4000L	≥4000L	≥4000L

Installation method

Before installation, please cut the supply of water and electricity

Please ask professionals to install it for you. Installation steps are as follows: (Note:Large capacity of commercial RO system need 3/8"pipeline)

1. Turn off the water, turn on the faucet, let go the remaining water in tube.
2. Take off the inlet pipe off faucet, install the water inlet tee and tighten it with a wrench (when install the water inlet tee, if there is rubber gasket in the connector, then you do not need wrapped with thread seal tape), with 1/4" inlet valve carefully wrapped with thread seal tape attached to the inlet side of the tee hole, tap water inlet pipe mounted on the inlet tee, and tighten with a wrench.

3. Turn off the water inlet valve, turn on the water. Wiping the in-installed connectors with a tissue to check if there is water seepage.

4. Put PP filter, GAC (granular activated carbon) filter, CTO (compressed activated carbon) filter sequentially in three filter bottles, use wrench to tighten the filter bottles cap. (cabinet type RO system do not need this step)

5. With pressure tank outlet wrapped with thread seal tape, install pressure tank ball valve, connect the outlet of post carbon filter to pressure tank ball valve,

6. Inlet water pipe connecting: When install the under sink RO system, please connect the pipeline from inlet ball valve directly to the inlet of first stage filter. When install the Cabinet RO system, firstly need open the cabinet lower part of the piping hole cover, Power cable leads out. Connect to the pipe from inlet ball valve through the hole, and leads to the inlet connector of first stage filter in cabinet. then check if there is water leakage.

7. Rinse Pre-Filter: Firstly remove the shell of reverse osmosis membrane water short PT tube, inserted it into a container, turn on water supply and power supply, rinse the first three stage filters till the water becomes clean.

8. Install gooseneck faucet: dig a hole with a small groove pin (easy to drill) on the stainless steel hand sink, drill the hole in the groove surface with a hand drill (M12), then fix the gooseneck faucet, connect 1/4" PE tube to gooseneck faucet termination, the other end of tube connecting to post carbon filter outlet.

9. Remove the RO membrane cap with RO membrane housing wrench, install the RO membrane and RO membrane cap, use the wrench tighten the cap.

10. Get proper length of 1/4" PE pipeline connect waste water outlet and connect it to under sink drain.

11. Open the water supply and gooseneck faucet, check the booster pump if it works properly. Until gooseneck faucet flow water, close the gooseneck faucet., After 5 minutes, check if there is water leakage of every part, if no water leakage, installation finished. If there is water leakage, please check the above steps.

Note: When first time you use it, we recommended you do not use the first two tanks of purified water.

Installation & Usage:

1. Keep the filter system far away from Inflammable materials and avoid strong sunshine or high temperature.

2. Don't install it outdoor, in case of sunshine and rain may cause dangerous accident.

3. Filters of each stage shall be replaced regularly according to the replacement cycle. Replacement cycle may differ according to your local water quality and purified water.

4. When the purified water suddenly becomes considerably small flow or taste bad, or purified water's Conductivity is more than 100uS/m, you need to change the filters.

5. When the product is not used for a long time, turn off the water supply and power supply and emptying the water tank.

6. The first time you use it or you use it again after a long time (over 1 month), Use disinfectant detergent to scrub water tank and RO membrane. Please do not to use gasoline, alcohol or other solvents to scrub them. Then turn on the drain water tap and in water tap to flush all the filters for a while (3-5 minutes).

Tips of replacing filters:

Usually, You need to prepare basin and rag for leaking water during this time.

Step 1: Turn off the power and ball valves of water inlet and tank.

Step 2: Replace the old filter by new filter of the same specification.

Note: After you replace the first 3 stages (Granular Active Carbon Filter, Compressed Active Carbon Filter and Post Coconut Active Carbon), Please wait until the black water all flows out from the system, then you replace the last 2 stages (Reverse Osmosis membrane and post active carbon).



Main Components and functions:

Baasier pump	With trans fomm er	Gurantee siab le wa ter pressure for RO membane, tomake sue i works wel.
Highopressure switch (No mnally do sed)	3kg/cm	When water pres sure in waler tank rises up to the maximum pessuee highomssue swiich can stand, RO pump wil be tumed offautom atically, as a resul, the system slop s puifying water.
Lo wopressure switch (No mally do sed)	24V	When lap water of no pressure or pressure is too lowr, RO pump wil be slopped warking, in case of id ling.
Solenaid vahve	24V	When the system shops pudfying water, it will disconnect tap wate, so that waste water wo n't flow out thro ugh RO mem brane under tap water Pressure.
Computer board and monitor		Auta-flush, extends service le of RO membrane. Displays operational funato ns of the RO wate system automatic ally.
Power Switch		Turn on/off power forcibly.

Maintenance:

As a user of RO water purifier, if you replace the filters periodically, you can always enjoy pure water of high quality.

The frequency you replace the filters depends on your local water quality and minerals in it, and you can also use water quality detector to help you make decision.

By experience of users, replacement circle of filters differ as below:

1. Feed water is tap water

Stage 1: PP fiber filter	3-6 months
Stage 2: GAC filter	6-12 months
Stage 3: CTO filter	6-12 months
Stage 4:RO membrane	24-36 months
Stage 5: Post active carbon filter	12 months

2. If the feed water is underground water that contains too much iron element, the above replacement circles all reduce 1 month. Also, you can adjust the replacement circles according to your local water quality or purified water flow.

3. If the feed water is river or stream, please ask your local distributor to test the water periodically and advise you the accordingly replacement circle.

Conditions and possible reasons:

1. The purified water is of low flow.

Maybe the prefiltration filters or RO membrane is blocked.

2. The purified water is of considerable big flow (for example: purifying more than one barrel water within 1 hour):

RO membrane is broken.

3. Purified water tastes bad.

You need to replace the post active carbon filter by a new one.

Troubles and solutions:

Trouble 1: Motor doesn't work and no purified water flows out.

Solutions:

- Check the feed water pressure. If it is too low, it will make the low-pressure switch powered off.
- Check if the high-pressure switch or the power supply board is out of control and can't be reset.
- Check the transformer's fuse firstly. If it is burned-out, then check if the 2nd and 3rd stage filters. If either of them is blocked, the motor may be overloaded.
- Check if the computer control box is troubled or powered off.

Trouble 2: Water leaking from Pump Head.

Solutions:

- Check 2nd or 3rd stage filters. If either of them is blocked, it will make the water in pump head can't flow, which causes high water pressure and water flows leaking from pump head. In this case, you shall replace the two filters by new ones.

b. Check if the adhesive film of the pump is aging out or the encrustation in the pump is too much. If yes, please take the pump for repair. Remember to often check the first stage filter, in case that it is blocked.

Trouble 3: Motor works well, but there is no purified water flow out.

Solutions:

- RO membrane is blocked or motor is of voltage loss. If RO membrane is blocked, please replace it by a new one. If the motor is of voltage loss, the reason may be it is overloaded for a long time or the filters are blocked.
- Solenoid valve for feed water is troubled, which makes feed water can't flow. In this case, you shall replace it by a new one.

Trouble 4: The filter machine is auto-flush, motor works intermittently.

Solution: Feed water pressure is too low or the first stage filter is blocked. In this case, please install a pressure machine and replace the filter by a new one.

Trouble 5: Water tank is full, but there is no purified water flow out.

Solution: Air in water tank relief water pressure. Please refill air in the water tank to check if there is air flow out of the water tank. If you can't refill air in the water tank, replace the water tank by a new one.

Trouble 6: The machine is powered off, but there is purified water flowing.

Solution: Solenoid valve for feed water or Check valve can't be locked. Please disassemble them to check if they are troubled or blocked by debris.

Trouble 7: You can't turn off the machine completely or it works automatically soon after you turn off it.

Solutions:

- High-pressure switch is out of control. Repair it or replace it by a new one.
- Check valve relief pressure and can't be locked. Please replace it by a new one.

After sale service

Thanks for your purchasing our company's RO water system, you will get the appropriate after-sale service, for your rights, please carefully read the following clauses.

- From the date of purchase within one year to determine due to operation failure caused by quality problems, you can take the purchase invoice and warranty card to get free service.
- If the situation happens that the machine is broken when open the box, please get in touch with the seller,
- In the case of one of the following is not covered under warranty, but the repair charges will be implemented
 - Usage, storage damage caused by improper handling;
 - Operation environment does not meet the requirements of the product caused by fault,

- 3) Non-corporate special service units and individuals to install, repair damage caused;
- 4) Over warranty period or without a warranty card and a valid invoice;
- 5) Warranty card is not matched the actual product to be repaired, or altered.
- 6) Due to force majeure (such as fire, earthquake) damage or failure;
- 7) Damage caused by other non-manufacturing problems.

Warranty Card

Model:	Date of purchase:
Store of Purchase:	Customer address;

Firstly, thanks for your purchasing _____co, Ltd's Water Purifier system. In order to offer better service for you, please carefully read the following warranty clauses, Under the normal usage of this product, All things from raw materials or the production process caused by quality problems within three years, the unit responsible for the free repair from the date of purchase.

All things that due to the user does not install according to the product user manual, disassemble or damage caused by incorrect use, we can provide maintenance for the unit, but need to charge the appropriate fees and material costs,

Warranty

1. We offer free repairmen for the system.
2. If the system gets troubled itself within one year, we will replace it by a new set.
3. Its consumables are not in the warranty scope.

The below cases are not in the warranty scope,

1. Customers disassemble the system, or repair it, which makes the device broken.
2. The device gets broken because of Natural disasters or force majeure,
3. Customers don't keep, use or maintenance the device properly, which makes the device broken.