

Counter Top FZ-50 RO System



Operation Manual

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FZ-50 Reverse Osmosis drinking water appliance is designed to connect to a home plumbing system. The appliance should be connected to municipal water supply only and under the following conditions:

1. Water Condition: Do not use where water quality exceeds the microbiological safety standard or TDS is greater than 1,000ppm

2. Water Temperature: Do not exceed 38° C

3. Water Pressure: 40~80PSI

4. Installation Location:

Avoid direct sunlight or other direct light sources

Avoid spraying water or other liquids on the machine

5. Replacement of filter cartridge: All filters should be changed at least every 12 months, and more often with heavy use or problem inlet water.

Replacement filters are available at www.WaterFiltersOnline.com

Please read and follow the instructions to ensure that your RO system works effectively.

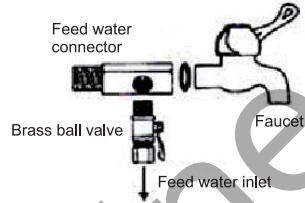
Improper installation, use and maintenance of this unit will not be covered by the product warranty.

Installation

There are different installation methods, according to different water supply pipelines in the home.

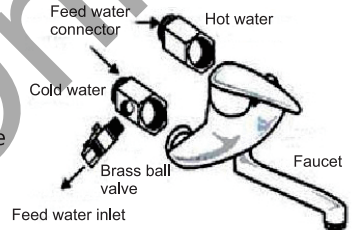
(A) Under-sink pipe installation

- (1) Turn off the tap water supply valve
- (2) Loosen nut at the top of riser
- (3) Install the feed water adapter valve
- (4) Re-connect the nut with cone washers to the feed water adapter valve
- (5) Connect 1/4" (or 3/8") tubing to feed water adapter valve, using compression nut, plastic sleeve and insert.



(B) Wall-mounted mixer faucet

- (1) Turn off the inlet valve and remove the faucet
- (2) Install feed water adapter valve on the cold water side
- (3) Install the extension piece on the hot water side
- (4) Re-install the faucet



Start the filtration system

- (1) Confirm that all components are installed and secure
- (2) Open the feed water adapter and check for the leaks. If any leaks are found, do not proceed further until the leaks are repaired

Check operation status

Measure TDS and recovery rate

- (1) After flushing, measure and compare the TDS value of source water and pure water with TDS device
- (2) The pure water TDS value should be about 10% of the source water TDS value.

Operation

First time operation

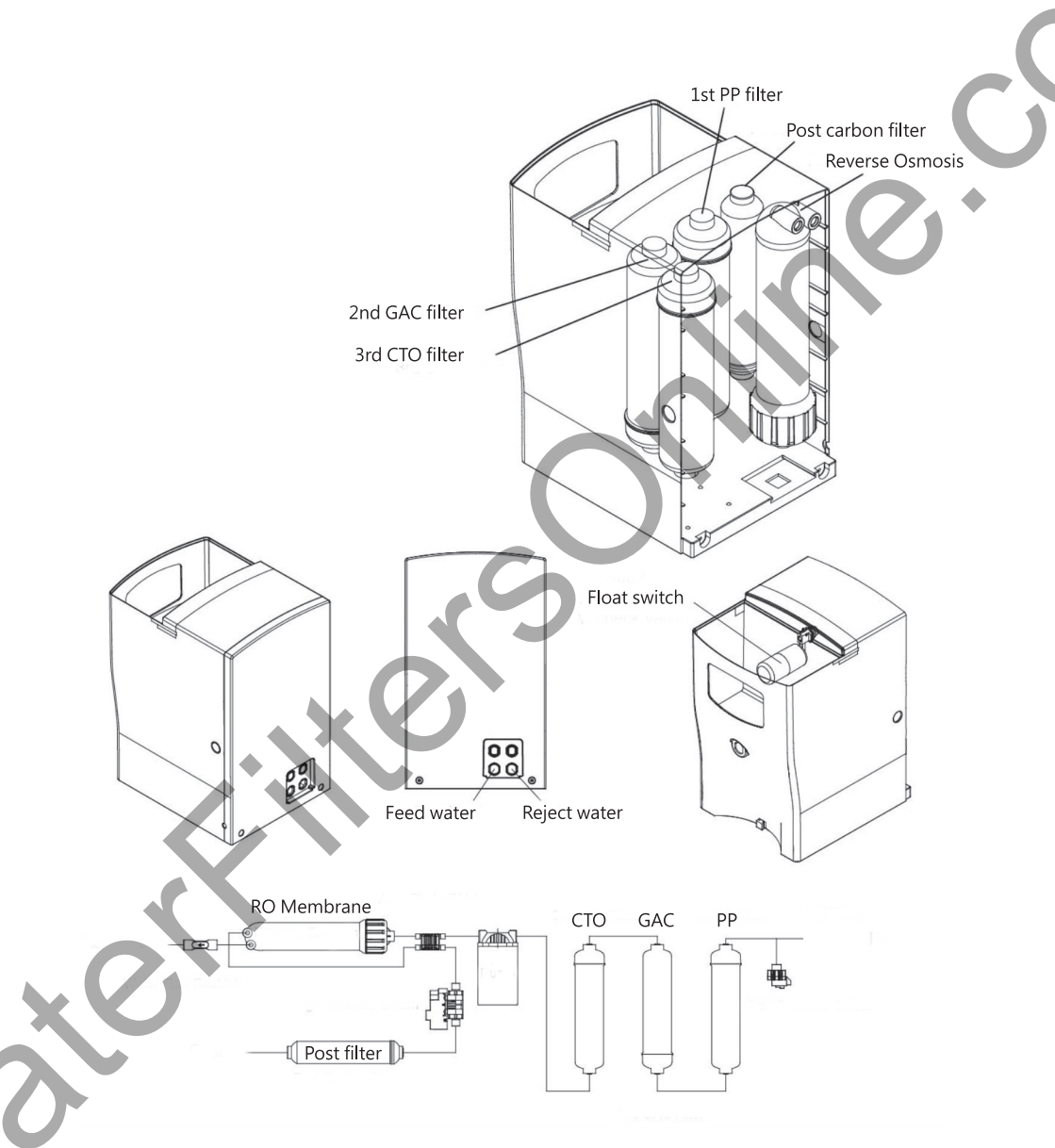
When the machine starts working, do not drink the first bucket of pure water. Open the faucet and drain the first bucket of pure water.

Changing filter cartridge

- (1) Turn off the water inlet valve according to the procedures
- (2) The RO system must remain upright during changing filter cartridge.
- (3) Replace the correct filter cartridge and insert the tubes into cartridge ports.
- (4) Confirm the flow direction before changing filter cartridge.
- (5) Turn on the water inlet supply.
- (6) Do not drink the first 3 tanks of water after changing the filters.

Make and discard 3 tanks prior to drinking.

Installation Chart









Troubleshooting

Problem	Possible cause	Solution
1. No water or small amount water from the faucet	Check valve or RO membrane damaged	Check valve or RO membrane damaged
2. filter/RO membrane housing leaks	O-ring disconnected or defective	Close feed water valve tank valve Close faucet to replace O-ring
3. Fitting joint leaking	Nut is loose	Firmly wrapped with Teflon tape
Tube leaking	Tube bended	Adjust or cut the tube
4. Poor water taste	Tank is contaminated	Tank sterilized
	Filter or RO membrane failure	Replace the filter. If the taste not improved, replace RO membrane
	The water pressure of the RO membrane is too low	Replace the pre-filter and check that the pump output should be 80~100psi
5. TDS too high	RO membrane failure	Replace RO membrane
		Check if the seal or O-ring is damaged. If so, replace it

Maintenance

Replacement filters are available at www.WaterFiltersOnline.com

The cartridge replacement depends on the water quality in the customer's area. Please follow maintenance instructions to ensure that your RO water purifier maintains maximum water efficiency.

Cartridge		Replacement
PP		Replace every three to six months
GAC		Replace every 6000 gallons
CTO		Replace every 6000 gallons
RO Membrane		Replace when TDS drops below 75% removal
Post Filter		Replace every 2500 gallons
PE Tube		Replace as needed

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