

USER MANUAL / Standard 5 Stage Version

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■ INTRODUCTION:

We sincerely thank you for purchasing Puricom CT8-R3 RO system. To ensure your safety and satisfaction, please read through this manual before use.

As the environment continues to deteriorate, it is increasingly difficult to obtain a reliable source of clean, pure, healthy drinking water. That is why PURICOM chooses to use RO membranes with the highest quality and other relevant technologies to develop series of versatile and economical RO water purifiers, and thus able to provide pure and healthy water.

You will find Puricom CT8-R3 RO system very easy to maintain, with its quick, simple, sanitary filter replacements. The good tasty water flows directly a special is also perfect for beverages such as coffee, tea and lemonade.

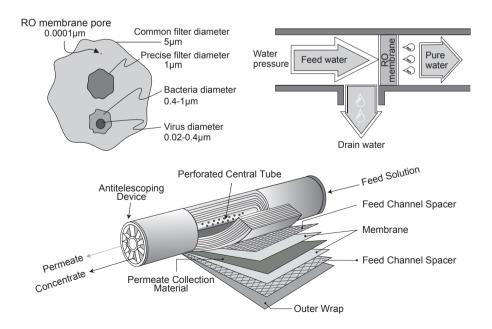
Please read this manual carefully, paying attention especially to maintenance procedures and safety information. With all gratitude, we assure you a constant, sustainable supply of pure healthy water.



■ WHAT IS REVERSE OSMOSIS (RO):

To fully understand the technology of Reverse Osmosis, it is a must to understand normal osmosis. Osmosis is a natural process that occurs in all living things. For instance, osmosis permits water and nutrient absorption through the root system of plants; similarly, nutrition is assimilated from blood to cells in the human body. The drawings below help further explain the principle of reverse osmosis.

As water exerts pressure on the semi-permeable membrane, the purified (or filtered) water passes through the pores of the membrane, while the rejected (or concentrated) is diverted to the drain. When the diameter of the pores is less than 0.0001 microns, only pure water and a balanced quantity of minerals (sodium, potassium, calcium, and magnesium, etc) can pass through; while other substances (such as bacteria, viruses, metals, pesticides, chemical products, etc) are eliminated during the process.





■ SAFETY INFORMATION:

Please read this information to prevent property loss and to ensure your safety.



INSTALLATION SAFETY

- 1. Keep the product away from inflammable gas or burnable materials.
- 2. Do not install the unit near heaters.
- 3. Do not spray with water. Use a damp cloth to clean.
- 4. The length of the water inlet hose must be shorter than 5m. If longer; product performance may be degraded.
- 5. Do not use with hot water. Optimal inlet water temperature is 5°C- 45°C.
- 6. Inlet water pressure is 15 45 PSI.
- Water analysis TDS should not exceed 1000 PPM. Hardness should not exceed 250 PPM.
- 8. Ensure the inlet, outlet and drain connections are correct and that the drain point is not blocked.
- The filtration system installation shall comply with state and local laws and regulations. Do not use with water that is microbiologically unsafe, of unknown quality, or without adequate disinfection before or after the system.



OPERATION SAFETY

- If water leaks from the product, cut off the supply valve and call Customer Service.
- Use or place the unit on an even surface and do not apply force to the unit.
- 3. When water is stored or the product is not in use for a long time, drain all water from the storage tank before use.
- 4.Periodical filter replacement is prerequisite for clean water. If filters are overused, the performance of filters is degraded.
- 5. Use with Puricom filter products to maintain expected product lifespan and performance.
- 6.After activated carbon filter replacement, a certain amount of carbon fines may be introduced to the water. It is food grade activated carbon particles and is harmless to the body.
- 7.Before using the filter for the first time or after replacement of the carbon filter run water for a few minutes, till the water runs clear, to rinse any carbon fines from the filter.
- 8.Do not expose the unit to direct sunlight or high humidity environment. The optimal room temperature for the unit is 4°C 40°C .



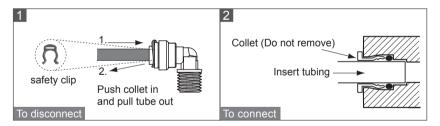
■ SPECIFICATION:

Model	CT8-R3 without PUMP	
Capacity	50 GPD	
Storage Tank	13L	
Size	D14cm × W34cm × H44.5cm	

■ INLET WATER REQUIREMENT:

Inlet water TDS	< 1000 ppm
Inlet water pressure	15 - 45 psi
Total hardness	< 250 ppm
Temperature	5°C - 45°C

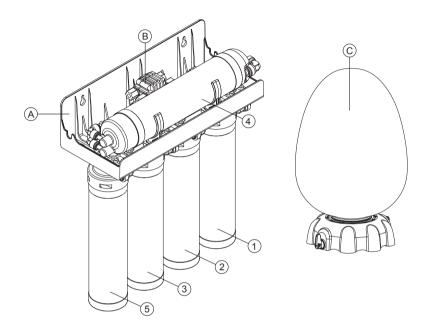
■ HOW QUICK CONNECTORS WORK:



- 1. Remove the safety clip from under the collet, push in the collet, and pull the tube out.
- 2. Ensure the tube is clean and free of burrs. Push the tube into the connector until it stops. At last, pull tube out a little bit and replace the safety clip.



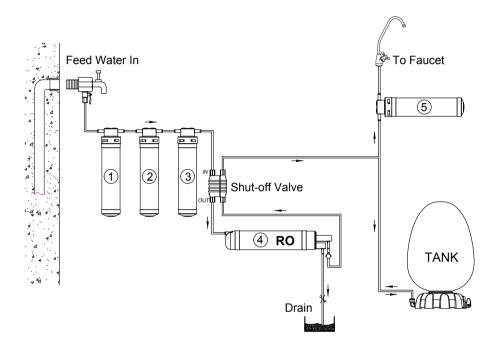
■ PRODUCT DESCRIPTION:



Α	Lighten Bracket	1	1st Stage Pre-filter
В	Shut-off Valve	2	2nd Stage Pre-filter
С	Q-PACK Storage Tank	3	3rd Stage Pre-filter
		4	4th Stage RO Membrane
		5	5th Stage Post Filter



■ FLOW CHART:





■ ACCESSORIES:

Accessories Pack (* for optional)

A. PE tube B. Drain clamp C.Feed water ball valve

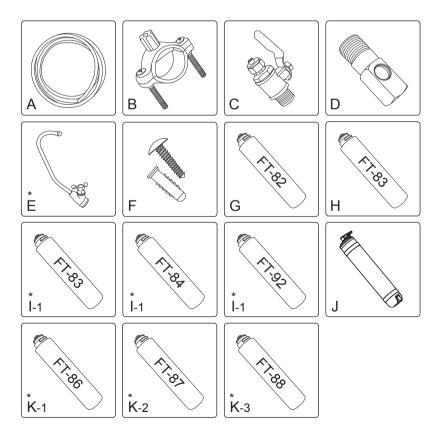
D. Feed water connector E. Faucet F. PVC plug and screws

Filters (* for optional)

G. 1st Stage- PP 5µ filter H. 2nd Stage- Carbon filter

I. 3rd Stage- Carbon / CTO / PP 1μ filter J. 4th Stage- RO membrane

K.5th Stage- Carbon / Remineralizing / Silver Carbon





■ FILTER FUNCTION DESCRIPTION & RECOMMENDED FILTER REPLACEMENT:

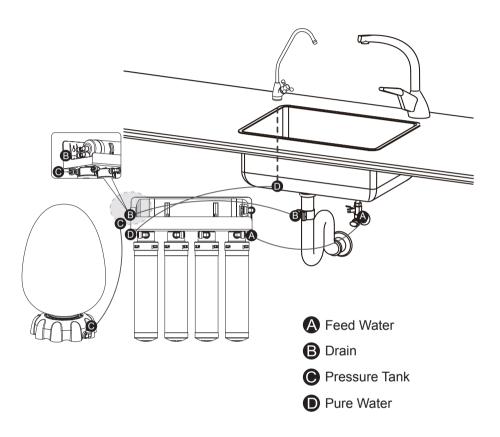
STAGE	FILTER	FUNCTION	REPLACEMENT INTERVAL
1	FT-82 PP 5µ	Traps dirt, rust, and other impurities.	3~6 months
2 3	FT-83 (G.A.C.) Carbon	Removes chemicals and odors, such as chlorine and chemical fertilizer. Set before the RO membrane can protect it from being damaged.	3~6 months
3 FT-92 Carbon Block		Fine traps dirt, rust, and other impurities.	3~6 months
		Removes fine particles and harmful pollutants. Set before the RO membrane can protect it from being damaged.	3~6 months
4	RO Membrane	This high technology, semi permeable membrane effectively takes out TDS, viruses, bacteria, slime, heavy metal, pesticides, and chemicals etc. Harmful impurities separated by the RO membrane are diverted to the drain.	1~3 years
	FT-86 Post (G.A.C.)Carbon	Drinking water enters this filter after the storage tank and is used as final polishing filter before the faucet. It removes objectionable tastes and odors.	12 months
\$	FT-87 Post Remineralizing	Drinking water enters this filter after the storage tank. Remineralize drinking water and raises its pH level.	12 months
	FT-88 Post Silver Carbon	Drinking water enters this filter after the storage tank and is used as final polishing filter before the faucet. Silver ion adds good antibacterial property and high safety.	12 months

Note:

Water analysis by qualified dealer is required to determine optimal lifespan. Frequent use or bad quality feed water shortens filter lifespan. If water pressure and water quality are not within limits, please contact your distributor to make proper modifications.



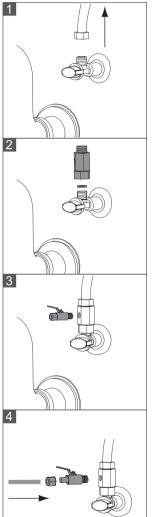
■ INSTALLATION DIAGRAM:





■ INSTALLATION:

A. Feed Water Assembly



- 1.Turn off the feed water supply, and disconnect the existing cold water line from the existing cold water supply valve.
- 2.Wrap several turns of seal tape on the new feed water connector and install it with the black washer on the existing cold water supply valve.
- 3.Reinstall the existing cold water line on the new feed water connector. Wrap several turns of seal tape on the ball valve and install it on the new feed water connector.



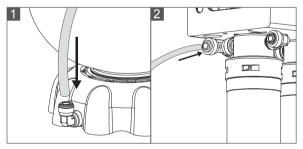


B. Drain Clamp Assembly



- 1.Drill a 6mm hole on the existing drain pipe.
- 2. Tighten the drain clamp evenly on both sides.
- 3.Refer to p.10 **B**. Connect the PE tube and complete the drain clamp assembly.

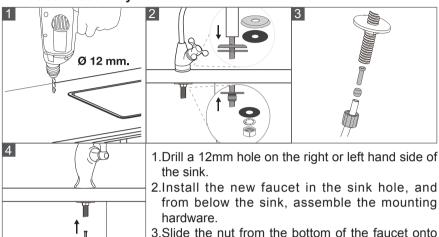
C. Storage Tank Assembly



- 1. Connect the PE tube to the quick connector.
- 2.Refer to p.10 .Connect the other end of the PE tube to the filter unit's "to tank" outlet.
- *How quick connectors work can refer to p.5.

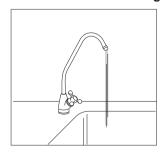


D. Faucet Assembly



- 2 centimeters from the end of the tube. Place the spacer into the end of the tube.
- 4.Put the end of the tube into the bottom of the faucet and tighten the nut to complete the faucet assembly. Refer to p.10 **①**.

E. Notice Before Using



1.Make sure all connections and filters are properly installed.

the end of the tube. Then place the seal on the

end of the tube and slide down to about

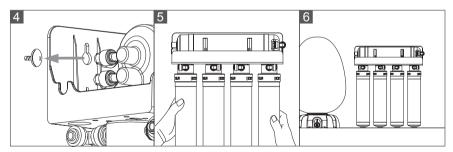
2.Allow a tank of water to rinse through system before first time use.



■ HOW TO MOUNT THE WATER PURIFIER ON WALL:



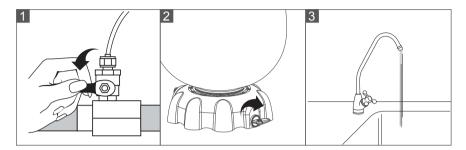
- 1.Drill Ø 6mm holes.
- 2. Hammer in PVC plugs into the wall.
- 3.Use a screwdriver to screw the screws into the PVC plugs. The depth of screw protrusion must be uniform (±10mm) to avoid damage to unit body.



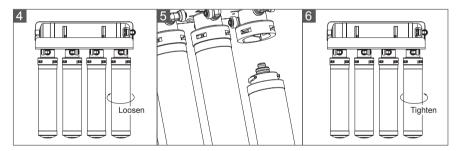
- 4.Aim at the hole of the bracket.
- 5. Hang up the purifier and finish.
- 6.Or it can be placed on the counter leaning against the wall.



■ FILTER REPLACEMENT (FOR 1st, 2nd, 3rd and 5th STAGE):

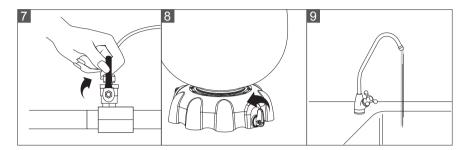


- 1. Turn off feed water at the feed water valve.
- 2. Turn off the storage tank ball valve.
- 3. Turn on the faucet to release pressure from the tubing.



- 4. Follow the arrow direction to unscrew the old filter.
- 5. Replace the filter.
- 6. Follow the arrow direction to screw the new filter.

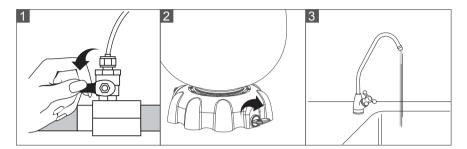




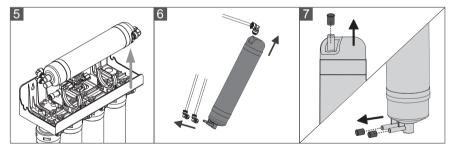
- 7. Turn on feed water at the feed water valve.
- 8. Turn on the storage tank ball valve.
- 9. Allow a tank of water to rinse through the system before use.



■ RO MEMBRANE REPLACEMENT:

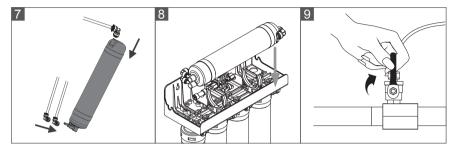


- 1. Turn off feed water at the feed water valve.
- 2. Turn off the storage tank ball valve.
- 3. Turn on the faucet to release pressure from the tubing.

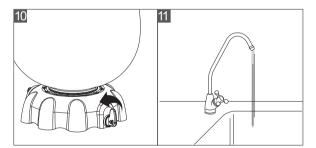


- 4. Pull the disposable RO filter from the bracket.
- 5. Remove the elbow connector out the top and bottom of the RO cartridge.
- 6. Remove the protection caps from the top and bottom of the new RO cartridge.





- 7. Connect all the fittings.
- 8. Put the RO cartridge into the bracket.
- 9. Turn on feed water at the feed water valve.



- 10. Turn on the storage tank ball valve.
- 11. Allow a tank of water to rinse through the system before use.



■ TROUBLESHOOTING:

Problem	Possibility	Troubleshooting
TDS value of permeated water is rising (rejection	1.The ratio of permeate water to drain water is less than 1:3.	Flow restrictor is clogged. Clean it, or replace it.
rate is lower than 90%).	2. RO membrane is worn.	2. Replace RO membrane.
Output of permeate water decreases.	RO membrane is clogged.	Replace RO membr ane. (If clogging is frequent, increase the drainage ratio of the flow restrictor or install a softener to extend the lifespan of the RO membrane.)
No permeate or drain water is produced.	Shut-off valve is worn.	Replace shut-off valve.
TDS value of permeated water is	1.The ratio of permeate water to drain water is less than 1:3.	Flow restrictor is clogged. Clean it, or replace it.
rising (rejection rate is lower than 90%).	2. RO membrane is worn.	2.Replace RO membrane.
Output of permeate water decreases.	RO membrane is clogged.	Replace RO membrane. (If clogging is frequent, increase the drainage ratio of the flow restrictor or install a softener to extend the lifespan of the RO membrane.)
No permeate or drain water is produced.	Shut-off valve is worn.	Replace shut-off valve.



DEMO

Reverse Osmosis

