



SA CLEAN WATER



5 STAGE REVERSE OSMOSIS SYSTEM

PLEASE READ USER MANUAL CAREFULLY
BEFORE USE, STORE IN A SAFE PLACE

This user manual/installation manual is used for both with pump and without pump reverse osmosis systems. Please note that the "without pump" unit may differ slightly by way of the images in this guide however the steps taken are the same.

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IMPORTANT SAFETY INSTRUCTIONS:

When using electrical appliances, basic safety precautions should be followed to prevent the risk of fire, electric shock, and injury to persons or property

READ ALL INSTRUCTIONS BEFORE USING ANY APPLIANCE.

- 1.** DO NOT operate this or any other appliance that has a damaged cord. Connect to properly polarised outlets only. No other appliance should be plugged into the same outlet. Ensure that the plug is fully inserted into the receptacle.
- 2.** DO NOT run cord over carpeting or other heat insulators. DO NOT cover the cord. Keep cord away from high traffic areas and do not submerge in water. DO NOT pull on the power cable.
- 3.** We DO NOT recommend the use of an extension cord, as it may overheat and become a fire hazard.
- 4.** Ensure the Reverse Osmosis System is positioned in such away that the power plug is always accessible.
- 5.** Exercise caution and use reasonable supervision when appliance is used near children.
- 6.** Ensure the Reverse Osmosis System Housing bracket is fitted securely to the wall and the water tank is on a level surface.
- 7.** Unplug the Reverse Osmosis System from the wall socket and drain all the water from the water tank if not in use for a long time.
- 8.** Clean all plastic housing components before use. Wipe the Housing Bracket and all the connections with a damp cloth
- 9.** It is recommended that a qualified plumber install the Reverse Osmosis System.
- 10.** ALWAYS CONNECT THE REVERSE OSMOSIS SYSTEM TO YOUR COLD WATER INLET.

SA CLEAN WATER REVERSE OSMOSIS PART LIST:



HIGH QUALITY PRE-FILTER SET

Premium Quality,
High performance &
Stage pre-filter set



TAP MOUNT

Mount the tap
onto the wall



JG COLORED TUBING

JC food grade
color tubing



TFC MEMBRANE/ POST FILTER

High contaminant
rejection membrane &
cocunut shell refining
carbon 10[^] Filter



FEED WATER ADAPTER

1/2[^] or 3/8[^]
versatile feed
water adapter



HOUSING WRENCHES

High strength
pre-filter &
membrane housing
wrenches



WATER STORAGE TANK

4 Gallon pre-
pressurized water
storage tank



LEAD-FREE BRUSHED NICKEL FAUCET

Lead-free high
quality brushed
nickel faucet



TANK BALL VALVE

Quick Connect
1/4[^] tank ball
valve

NOTE:

It is required that an authorised plumber or installer is used when installing the Reverse Osmosis Filtration System. Please contact a plumber in your area.

NOTE:

It is required that a water pressure regulator be installed at the inlet to avoid leaking due to excessive water pressure (Above 4.5 Bars) and fluctuations in water pressure.

03

PREPARATION FOR INSTALLATION:

1. This system must be mounted in such a way to allow access to service the system or change the filter cartridges, it is recommended that the unit be mounted vertically.
2. Please insure that there is sufficient space surrounding the storage tank.
3. ALWAYS ENSURE THAT YOU CONNECT THE REVERSE OSMOSIS FILTRATION SYSTEM TO THE COLD WATER INLET.
4. The Reverse Osmosis Filtration System (with pump) has a transformer that transforms 220V from your house mains to 24V to run the pump, please ensure you have a plug available.
5. The reverse Osmosis system without pump has a flow restrictor which requires no power but will stop the flow of the drain water after some time dependent on pressure in.
6. The pump helps keeps a constant pressure to promote a continuous flow of water through the Reverse Osmosis Filtration System and out of the Tap Faucet.
7. Always ensure that your waste water pipe is connected to your waste water drain.

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INSTALLING THE FILTER CATRIDGES:

NOTE:

Always ensure that your length of pipe connecting your Reverse Osmosis Filtration System to your water mains, storage tank and Tap Faucet are of a sufficient length to allow you to remove the unit from the cabinet to do routine maintenance and to change your filters.



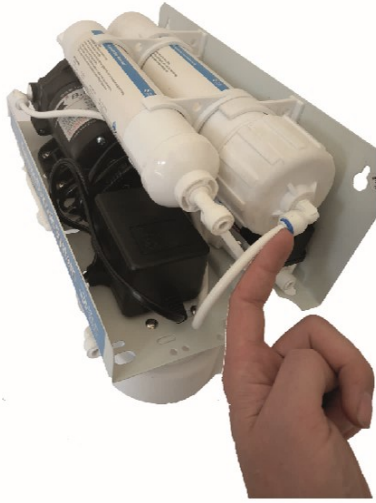
- 01** Insert the various Filter Cartridges into the vertical housings. For which filter to place in which hanging casing. From Left to Right:
1. Right - Polypropylene Filter
 2. Middle - Carbon Filter
 3. Left - Carbon Block Filter



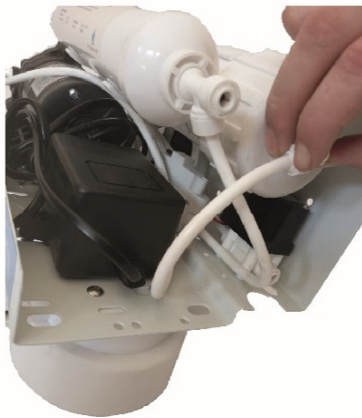
- 02** Once you have placed the filter into the vertical Housing, ensure that the upper O-Ring is secure within the recess of the housing head and that the O-Ring on the hanging casing is not bulging in any way. Ensure the seals are lubricated with water before installation to avoid leaks. Screw in the hanging casing into the bracket housing.



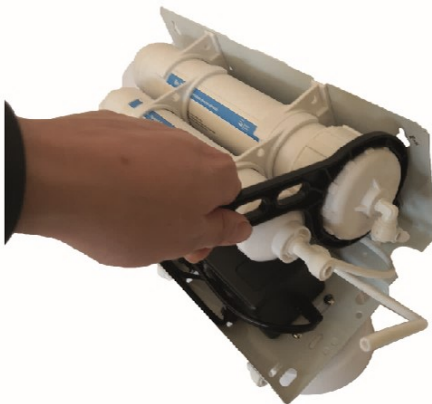
- 03** Hand tighten hanging casing. Use the spanner to loosen NOT tighten. DO NOT over tighten as this will cause leaking.



- 04** To remove the connecting pipe from the Reverse Osmosis Casing. Remove the Blue cir-clip.



- 05** Pull back on the white collar on the adaptor and pull gently on the pipe to release it from the adaptor.



- 06** Using the Small Spanner, place over the lid of the Reverse Osmosis Casing and pull down to loosen the lid, once loose , twist and remove the lid from the casing.



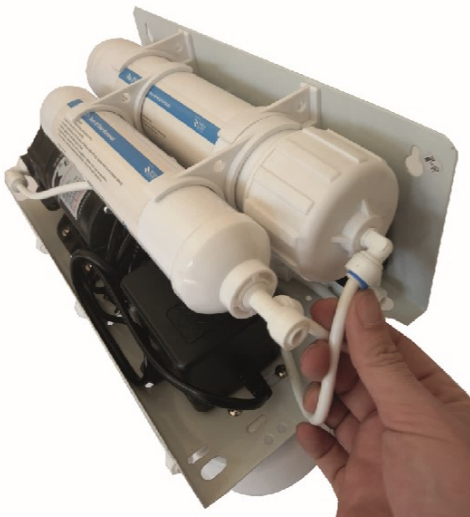
- 07** Remove the Reverse Osmosis Membrane from its plastic wrapping, remove the caps from the ends of the Reverse Osmosis Membrane.



- 01** Insert the Reverse Osmosis Membrane into the casing.



- 02** Hand Tighten the cap back onto the Reverse Osmosis Membrane casing.



- 03** Re-insert the piping leading to the cap of the Reverse Osmosis Membrane Casing and secure with the blue cir-clip.

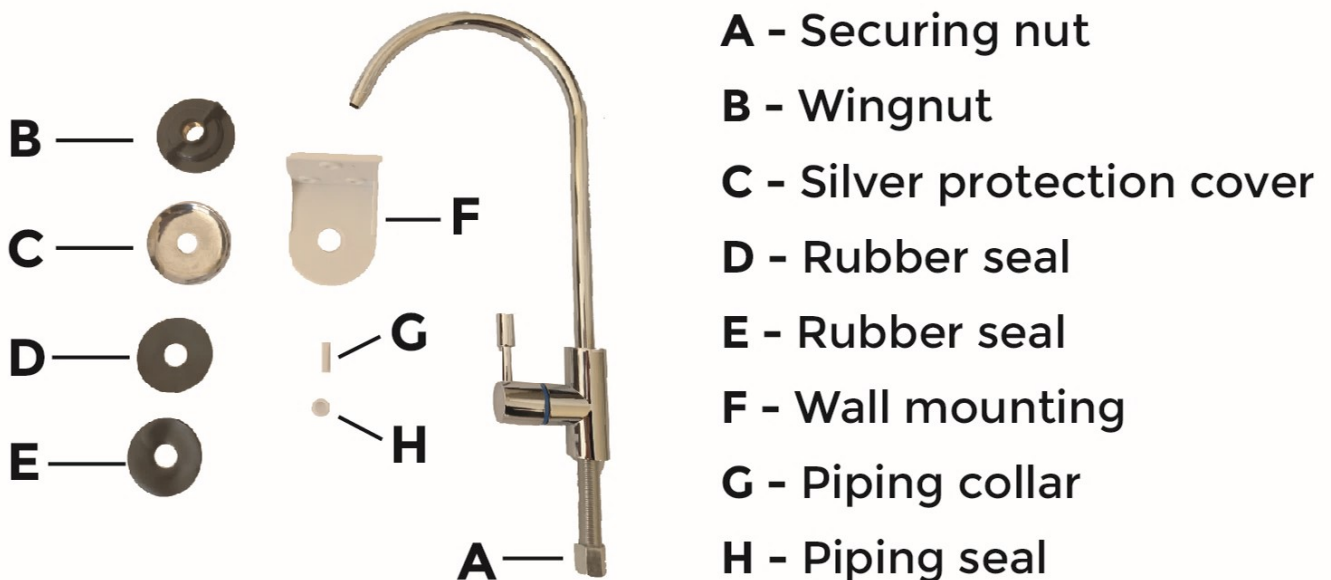
WATER INLET & OUTLET DIAGRAM:



NB: CONNECTIONS WILL BE THE SAME ON WITHOUT PUMP UNIT

- A** - Water inlet (water coming from mains into Reverse osmosis filtration system)
- B** - Water outlet to storage tank
- C** - Waste water outlet (Connected to drain)
- D** - Water outlet to tap faucet

INSTALLING THE TAP FAUCET PARTS



NOTE:

It is recommended that you do the installation of the Tap Faucet only once you have secured the Housing Bracket in its final position.



- 01** Remove the brass nut A from the threaded neck of the Tap Faucet place the Silver Protection Cover C onto the threaded neck of the Tap Faucet, then the largest rubber seal D and then the smaller rubber seal E. Insert the threaded neck into the hole you have drilled near your sink, alternatively insert the threaded neck into the wall mounting F provided (attach the wall mounting securely to your wall above your sink with wall screws). Secure tap faucet with wingnut B.



- 02** Place the securing nut A onto the piping. Slide the Piping Collar G onto the end of the pipe and insert the Pipe seal H into the open end of the threaded neck.



- 03** Insert the open end of the piping into the end of the Threaded Neck secure with the securing nut A.



- 04** Remove the blue Cir-clip from the outlet valve of the Mineral Ball Filter. Push the open end of the piping from the Tap Faucet, firmly into the outlet and secure the blue Circlip once again.

07

INSTALLATION OF THE WASTE WATER PIPE:

- 01** Measure out the correct length of piping that will allow you, at a later stage to remove the Reverse Osmosis Filtration System from the cabinet for maintenance and to replace the filter cartridges.



- 02** Remove the Blue Circlip from the Waste Water Outlet on the Housing Bracket. Insert the end of the length of piping into the Waste Water Outlet secure with the blue cir-clip.

- 03** Attach the other end of the Waste Water Pipe to your sewage outlet or drain.

08

INSTALLATION OF THE STORAGE TANK:

- 01** Measure out the correct length of piping that will allow you at a later stage remove the Reverse Osmosis Filtration System from the cabinet for maintenance and when replacing the filter cartridges



02

Screw the Ball Valve onto the Storage Tank

(NOTE: Some models may come with a metal Ball Valve)



03

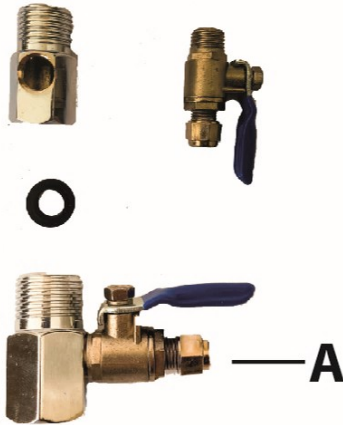
Remove the blue cir-clip from the Ball Valve and insert the end of the piping firmly into the opening. Replace the blue cir-clip to secure the piping



04

Run the piping to the T-Piece adapter on the Taste and odor filter. Remove the blue cir-clip and insert the end of the piping into the adapter. Replace the blue cir-clip to secure the piping.

INSTALLATION OF THE INLET WATER VALVE:



- 01** Assemble the inlet water valve , it will look like the above picture unassembled, and like the picture below when assembled. Ensure that the seal is fitted correctly before screwing the valve into the silver banjo bolt.



- 02** Unscrew Nut A from the assembled Water Inlet Valve, and push the non-threaded side of the nut onto the piping.



- 03** Push the open end of the piping onto the nozzle that has become exposed after you removed the Nut A and then tighten the nut back onto the Water inlet valve.



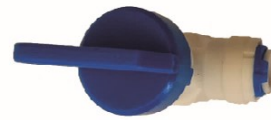
- 04** Take the opposite end of your piping attach this to the Water Inlet on the Housing Bracket (remove the blue clip and insert the piping, insert blue circlip to secure)

INITIAL START-UP

BALL VALVE OPEN/CLOSED POSITION:



Close Valve



Open Valve

1. Ensure that the Ball Valve on the Storage Tank is in the closed position.
2. Open the Water Inlet Valve and allow water to flow into the system.
3. For system without pump, open drain valve.
4. For system with pump, turn on transformer at the wall socket.
5. Open the Tap Faucet and allow the water to flow for 3 minutes. Flow will reduce to a drip.
6. Close the Tap Faucet and wait for 3 minutes.
7. Repeat step 3 or 4.
8. Open the Ball valve on the Storage Tank and leave the system to allow the tank to fill up.
9. Drain the Storage Tank by opening the Tap Faucet and then allow the Storage Tank to fill up again.
10. Your Reverse Osmosis Filtration System is now ready to use.



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