

IMPACT HEALTH SOLUTIONS

Reverse Osmosis Drinking Water System With Energy Resonance Technology



Installation & Service Guide

DEALER INFORMATION

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CONGRATULATIONS on your selection of purchasing a **Water Purifying System** from *Impact Health Solutions!* If you should have any questions on the care of this unit, please contact the Local Distributor from whom you have purchased it.

HERE ARE SOME FACTS WHY YOU SHOULD ALWAYS USE WATER!

Modern life & technology are polluting the *most precious life sustaining* resource on earth, water, much faster than nature can cleanse it. For aeons water has been flushed, drained, poisoned, recycled, filtered and always end up in the same place**OUR TAPS!**

Municipal authorities do a great job in supplying "*drinkable*" tap water, but:

- a) Most treatment plants are out-dated due to lack of funds, they still use the chemical treatment process where chemicals are added to clarify water (we drink a *clear* "chemical soup").
- b) Kilometres of impure pipes make it impossible to supply pure water on tap and
- c) The fact that less than 50% of all the treated water will be used for human consumption does not make it worth the expense of upgrading the water treatment plants. Although you might think that you've been drinking this water for years and nothing's happened to you, **be warned:** It might take years of exposure before irreversible damage is done. By the time symptoms are diagnosed, the damage is already done (similar to the scaling in water pipes and the inside of your kettle). Except the usual natural occurrence of inorganic minerals and heavy metals in water, there is also the poisoning of crops, fertilizers, chemical additives, industrial pollution etc. that increase pollution in water daily!

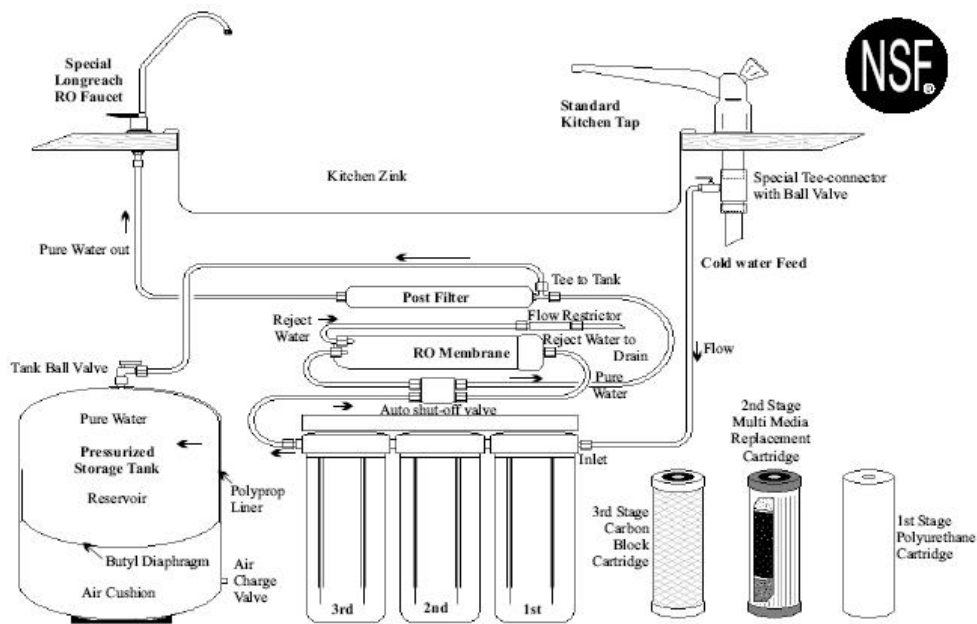
This pollution might be **hazardous** for you and your family's health. To name but a few of the health problems that can be linked to water pollution are: cancer (Bladder, Rectal, and Dermal etc.) heart disease, bone disorder like arthritis, Alzheimer's disease, kidney & gallstone, a negative affect on cholesterol and the circulatory system, hardening of arteries and many more!

You use water in your beverages, in your food, as a mix with your soft (and other) drinks, even your ice, but the quality is suspect. You cannot get away from the impurities that tap water has to offer! **Bottled water** is a very expensive and suspect alternative. The **good news** is that there is something that you can do to live a life that is free of the water "disease". To prevent yourself from dehydrating you should drink water at a rate of **30ml / kg of body weight** every day!

NASA as an essential part of their Space program utilizes the Reverse Osmosis Process. **Navies** around the world use it to purify **SEAWATER!** It is the most effective, but also the most cost effective purification method available. Our company offers a variety of treatment methods and solutions for water problems, including Reverse Osmosis, Water Softening, UV Treatment, and Multi-Media Filtration, from domestic to industrial usage. We also offer water bottling-, desalination-, effluent, grey water and sewerage treatment solutions.

Please do **NOT** forget to ask your Dealer about our existing **Customer Scouting Program** where you can get a system for free or your money back or free replacement filter cartridges for successful referrals!

THERE IS NO ALTERNATIVE TO PURE WATER!



SPECIFICATIONS

Reverse Osmosis Drinking Water System Features: Options:

All units are designed in the USA
 All material FDA and/or NSF compliant
 Elegant long reach faucet
 High output membrane - 70 GPD (270 LPD)
 Water storage tank (10 / 22 L)
 Pipe adapter
 Drain valve
 Automatic shut-off-valve

230V / 50Hz / 0.5mA Booster Pump
 Special 12V adapter for water quality computer
 UV Sterilizer
 Water quality monitor
 Pressure gauge
 Digital flush valve
 Manual flush valve

Flow restrictor
 Automatic flush valve

Purification Stages and Filter Replacement

Stage 1 : 5 Micron Sediment Filter (replace +/- 6 monthly)

Stage 2 : Special Multi Media KDF Filter (replace ± 2 years), GAC Filter (replace ± 1 year)

Stage 3 : 1 Micron Sediment / Carbon Block Filter (replace 1 - 2 years)

Stage 4: 0,0001 Micron TFC Membrane (Effectively removes all impurities incl. bacteria, harmful dissolved solids, poisons and chemicals. (3 -5 years)

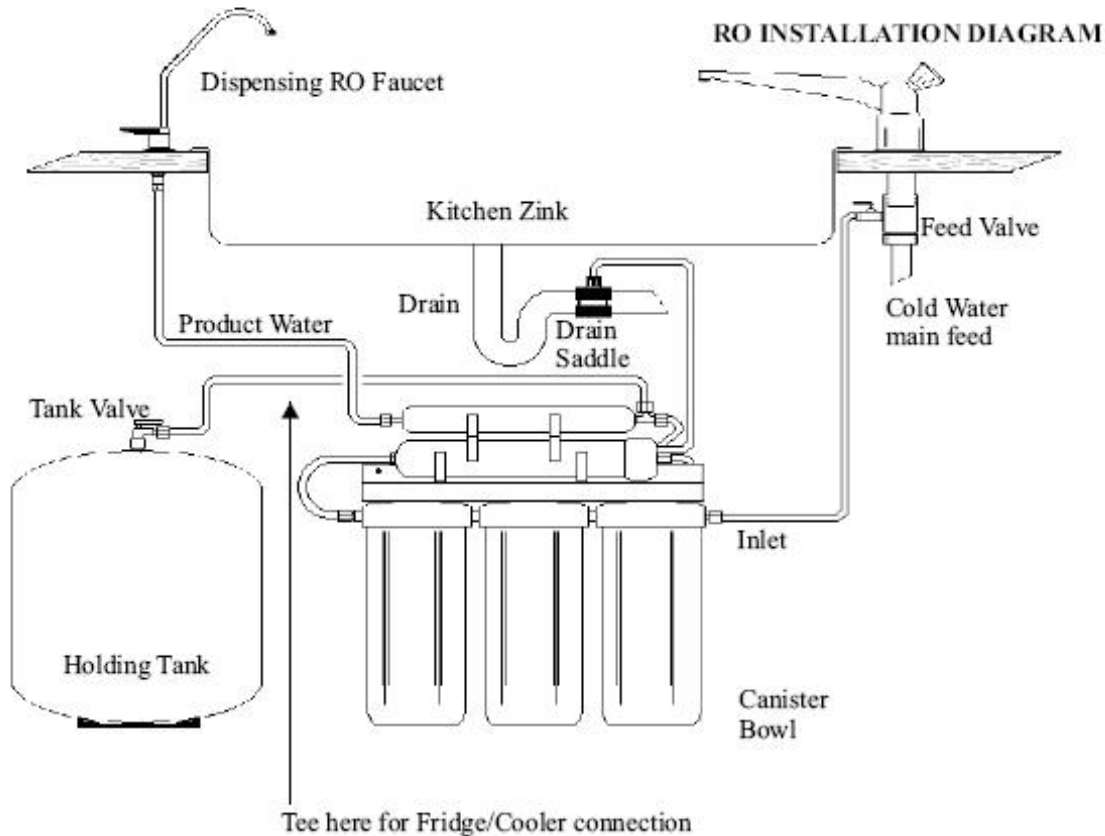
Stage 5 : Activated carbon polishing filter for taste and odour removal (2 - 3 years)

Stage 6 : Energy Resonance element (indefinite)

Stage 7 : (Optional): Ultra Violet Treatment

NB! Replacement rate on the Filters & Membrane will be determined by the consumption rate and feed-water quality.

INSTALLATION INSTRUCTIONS:



Installation Procedures:

Tools & materials recommended for normal installation:

1. Adjustable wrench (2)
2. Phillips Screw driver (Medium)
3. Drill (13mm chuck) and drill bits (6 and 12mm steel & 30 x 8mm masonry)
4. Teflon tape.

Position the system:

The RO System should fit in under most sinks. Assure that you remove all the components from the boxes and determine the location of the system and the most convenient placement of the tank, faucet and inlet connection. The system can be hanged on the side of the cupboard or wall with two mounting screws for easy filter replacement.

Install easy tap:

Turn off cold water supply to sink faucet. Follow the tube towards the most convenient coupling point. (It might be a nearby dishwasher, washing machine or even an outside tap).

Make sure of special 20mm (3/4") connectors or "Self Piercing" valves if necessary. (Ask your dealer for more information). Use enough Teflon tape and hand tighten connection - then one more complete turn with wrench.

Install drain clamp:

Select location to place drain clamp. (Best choice is the horizontal pipe after the trap or feed directly through wall to outside drain - water can be used to top up pool or watering lawn / plants.) To install - drill a 6mm hole through the top side of the drain-pipe (not underneath). Stick the foam-rubber seal onto the pipe, align the hole in the drain pipe with the hole in the drain-clamp. Tighten down the drain clamp.

Install RO faucet:

Pre-determine location of the faucet hole by looking underneath the sink surface making sure there are no obstructions. Use punch to determine exact location. Place paper or an old towel underneath to catch metal filings and make clean-up easier. (It is strongly recommended that porcelain coated sink and marble / granite tops be drilled professionally)

1. Place rubber seal directly under faucet before sliding into the drilled hole.
2. Place slot washer first, then the steel washer and then tighten the nut underneath the base of the sink.
3. To connect tube: Slide compression nut over the tube, then the ferrule and place plastic insert inside the tube. Press tube into faucet pipe and tighten compression nut.

Storage tank preparation:

Wrap the threads on top of the tank 6 - 10 times clockwise with Teflon tape. Screw plastic valve unto the taped threads (DO NOT OVER TIGHTEN!) The tank is pre-filled with approximately 0,8 Bar pressure when empty and can be laid on its side.

Connect your refrigerator or cooler systems with a plastic "T"-fitting spliced into the tube leading from the tank only if the unit is within 10m from the RO system. Make sure you have the recommended water pressure to your icemaker according to the refrigerator manufacturer and NEVER turn the icemaker on until you have a full tank of water to avoid damaging the refrigerator solenoid.

(DO NOT DRINK THE RO WATER UNTIL THE TANK HAS BEEN DRAINED AT LEAST ONCE!)

SYSTEM START-UP PROCEDURES:

1. Close the tank-valve, open faucet and then open the inlet valve.
2. Check for leaks around the RO.
3. Wait until the water starts flowing through the RO faucet.
4. Close RO faucet, open tank valve. Fill up the tank (it will take 1 - 2 hours), then open the RO faucet and drain the tank completely (\pm 5 minutes).
5. Repeat once more before you start drinking the water from the RO faucet.
6. Check for leaks daily for the first week and occasionally thereafter.

FILTER CHANGING PROCEDURES:

NB! DO NOT WAIT UNTIL YOUR WATER TASTES BAD BEFORE YOU REPLACE YOUR FILTERS!

Failure to change filters or use lower quality filters, can reduce membrane life and water quality dramatically. Remember most contaminants don't have a foul taste except in extreme quantities!

1. Sediment/ Multi Media/ Carbon Block Pre-Filters
(Replacement rate will be determined by feed-water quality and flow rates - see diagram on page 7 for more information). Close feed valve and tank valve. Open RO faucet and wait until water stops completely. Place an old towel underneath the system and unscrew the canister bowl (use bowl spanner if necessary). Remove and discard old cartridge. Clean bowl in hot soapy water. Insert new filter in appropriate canister. Assure 0-ring is clean, lubricated and seated properly when tightening. Follow Start-up procedures on page 4.
2. Post Carbon: Replace at the same time as 2nd & 3rd stage filters. In the case where the filters are K-line (Eco Box or CM series), unscrew tubes and then the white elbow from both ends of the filter. Discard complete filter. Turn Teflon tape around elbow threads and screw unto new filter. (Do not over tighten). Make sure arrow is going with the flow of the water and reconnect tubes. First few litres of water may contain carbon particles.
3. RO Membrane: Should be replaced before rejection rate falls to 85%! Sanitize system each time that the membrane is changed by removing all filters and submerge the entire system and pipes in a tub filled with water and 2 cups of household bleach. Leave it for at least half an hour. Rinse properly with normal tap water. Disconnect white tube going into the membrane. Unscrew end cap of the membrane housing. Clean housing and place new membrane back in place. Push in firmly. Assure that 0-ring is in place and replace end cap and tube. Assure all other filters are in place and follow normal start-up procedures.

TROUBLESHOOTING GUIDE:

PROBLEM	POSSIBLE CAUSE	SOLUTION
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No water through faucet:	Feed valve closed: Low water pressure: Membrane blocked Wrong connections	Open feed valve. Increase to 3 Bar or install a Booster Pump. Pre-filter or carbon block is blocked – replace. Replace if it has been used for some time. Refer to flow diagram & check for kinks in tube.
Makes water too slow:	Normal RO process: Low water pressure: Tank empty: Bad/blocked membrane:	Your RO System makes water a drop at a time! Increase to 3 bar - Booster pump. Replace filters. Filter/s clogged – replace. Wait at most for 2 hours to refill. Replace membrane.

Water does not taste or smell right:	Little water use: Filters have expired: System need sanitizing:	Drain tank twice. Should be done every time that you did not use the system for a while. Replace filters. Sanitize and replace membrane.
System is running continually at drain:	Air lock (new system): Low water pressure: Shut-off valve faulty: Faulty Flow Restrictor:	Drain system completely and follow START-UP PROCEDURES (allow a few tanks for air to bleed) Increase pressure or replace filters. Replace Shut-off valve or reseal diaphragm in valve. Replace or turn tap of flow restrictor to ‘closed’ position.
Noisy system: At drain tube/drain When using faucet	Placement of drain outlet. Air trapped in auto shut-off valve (diaphragm vibrating)	Check that drain tube to drain is placed after peat trap. Tilt system to allow air escape whilst faucet is open.
Filter housing leak:	O-ring not seated properly: Housing loose	If damaged, replace; if dirty clean, lubricate and reseal properly. Tighten.
Cloudy ice-cubes or milky coloured water:	New system or new post carbon filter	This is normal (air bubbles captured by activated carbon) and should clear up in a couple of tanks. High oxygen content (O ₂ clustering).
Tube "popped" out:	Tube connector not properly tightened: Water pressure too high:	Reconnect and tighten properly with spanner. Reduce pressure to below 6 Bar with a regulator and place inserts in tube.
Cooler / Refrigerator / Icemaker not working:	Not enough pressure: Line frozen: Tube kink:	Install Booster pump system. Thaw with hair dryer / make sure you have a full tank of water before turning the icemaker on. Un-kink tube - replace if damaged.

PLEASE CONTACT YOUR DISTRIBUTOR FOR PROFESSIONAL ADVICE.
DON'T FORGET TO ASK ABOUT THE GROWING
Impact Health Solutions BUSINESS OPPORTUNITY.

PRODUCT WARRANTY POLICY

GENERAL CONDITIONS

1. IHS will replace or repair any part of the system which is defective in operation because of faulty materials or workmanship for 2 years after installation on the understanding that you pay only freight and local labour charges. No guarantees can be given on any filters or membranes. (THE SOLE OBLIGATION OF IMPACT HEALTH SOLUTIONS UNDER THESE WARRANTEES IS TO REPLACE OR REPAIR THE COMPONENT OR PART WHICH PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD AND IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE. NO *Impact Health Solutions* DISTRIBUTOR, REPRESENTATIVE OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTEES EXPRESSLY DESCRIBED IN THE GENERAL CONDITIONS.)
2. IHS will also repair any leakages or faulty installations, free of charge, for a period of 1 (one) week after installation.
3. IHS accepts no liability for any damages caused by these systems or any leakage thereto unless reported to IHS within 1 week after commencement of the usage of the system.
4. Payment on delivery unless arranged another way.