TYPHOON 5 STAGE REVERSE OSMOSIS DEIONIZATION (RODI) SYSTEM INSTRUCTIONS

- 1) Always use extra length tubing to make your connections, you may want to move the unit to replace the filters in the future.
 - 2) Read the push-in fitting material on page 2, make sure you push the tube completely in.
- 3) If a fitting is not push-in, then use moderate pressure to snug up the fittings. Modern fittings do not rely on brute strength. They rely on teflon tape, o-rings or gaskets to make the seal (just snug the fitting to make it secure). Do not use glue. Plastic fittings that have been screwed on too tightly are subject to splitting. Stressed fittings may take days or even months to leak.
- 4) Please, Please, Please read this installation guide before installing the unit. This guide will answer a lot of your basic R.O. questions.
- 5) Ok! You installed it without reading the guide. Please read the guide before contacting us with questions or problems.
- 6) A 50 GPD system makes about 2 pure RO water gallons per hour, a slow trickle. Yes, more water goes to drain than is made. All RO systems make drain water while operating.
- 7) This systems max water pressure is 75 psi. Never connect a RO system to a water supply that has more than 75 psi or it could leak and cause property damage.

An in-line pressure gauge measures line pressure. Identify pressure drops that indicate the need to change filters.



If you have over 75 psi, you will need a PRV (pressure reducing valve less than \$25)



If you have under 50 psi OR have a well pump, get our plug & play booster pump to optimize system performance.



REPLACEMENT FILTERS:



Replace this filter pack every 6-12 months or 3,00 total gallons (750 RO gallons)

75 gallon per day (GPD) RO membrane



Replace your RO membrane every 1.5-5 years, when rejection rate is <90% or when RO production slows.

Thanks, Chris, The H2O Guru

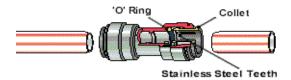


By the way... these are blue dust caps. Please remove & discard!

How to use Push In Fittings & How to remove Tubing

Connecting:

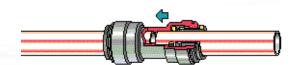
Cut the tube square. It is essential that the outside diameter be free of score marks and that burrs and sharp edges be removed before inserting into fitting.



Insert tube. Fittings grips before it seals. Make sure the tube is pushed in all the way.



Push up to tube stop. Push the tube into the fitting, to the tube stop. The collet (gripper) has stainless steel teeth which hold the tube firmly in position while the 'O' ring provides a permanent leak proof seal.



Pull to check secure. Pull on the tube to check it is secure. It is a good practice to test the system prior to considering your handy work is done. The system doesn't full pressurize until the tank is full.



Disconnecting:

Push in Collet and remove tube. To disconnect, ensure the system is depressurized before removing fitting. Push in collet squarely against face of fitting. With the Collet held in this position, the tube can be removed by pulling straight out, in the opposite direction. The fitting can then be re-used.

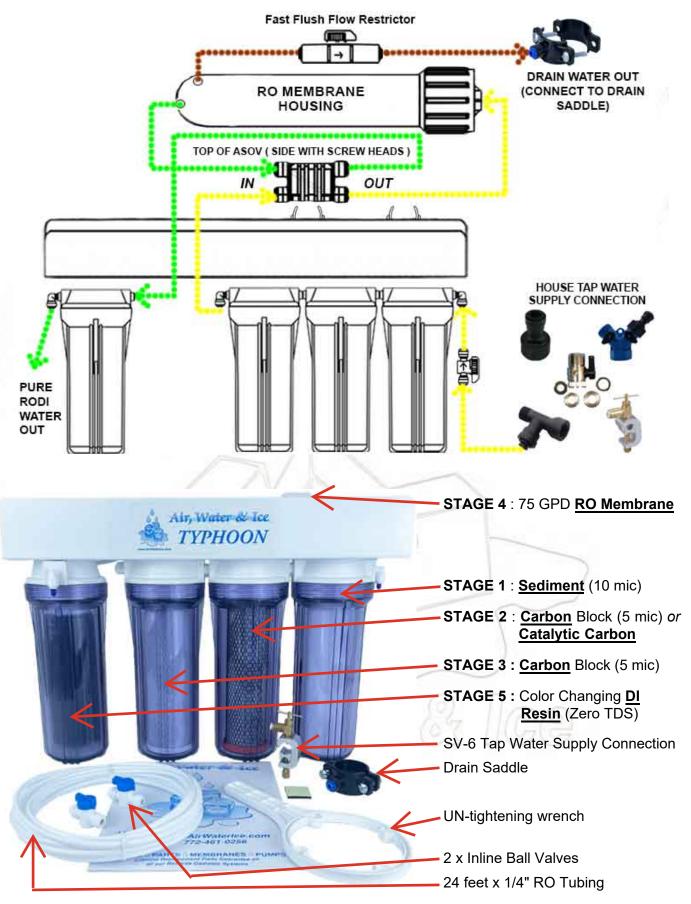


Step 1: remove clip Step 2: push in collet Step 3: Remove & discard blue dust caps.



TYPHOON RODI SYSTEM DIAGRAM & ILLUSTRATION

(please note the arrows on the filters point towards the directional flow of the water)



Questions? Call or text: 772-461-0256 / email: sales@airwaterice.com or visit us online at www.airwaterice.com

TYPHOON RODI SYSTEM INSTALLATION STEPS

Preparing for Installation:

Check out the area you will be working in. Is it safe? Any electrical around that should be off? Unplug all electrical cords in your area (garbage disposal etc). Do you have enough room? How about the lighting, will you be able to see what you are doing to drill a hole?

Our products are marketed throughout the world. Different areas have different requirements to meet local codes. We are presenting a generic method of installation. You will need to check out the local building codes to assure that your unit is installed in compliance with code.

Please read this guide as it is also a basic lesson in Reverse Osmosis Systems.

- > Prior to cutting any tubing to length, make sure it is long enough to allow you to move the system into the sink for filter changing. A good place to start for drinking water systems is to place the main RO system in the sink so we can make our tubing runs long enough to ensure easy filter changes in the future!
- > You need only simple tools & patience to complete a leak free reliable installation of your system. Please exercise caution, YOU are in charge here!

Tools:

Screwdriver, wrench, 1/8" & 1/4" & 1/2" drill bit, a drill (battery operated if possible), a sharp pair of scissors (or a tubing cutter) and a small bucket with some rags for any spills.

Quick Assembly:

Please remove the blue dust caps covering your tap water supply input & your pure RODI water out port.



INSTALLATION STEPS

STEP 1) Install TDS meter probe (if applicable). The "in" probe is pre-installed in your system just before the di resin stage & measures **RO water** quality. The "out" probe measures **RODI water** quality, let's install the "out" probe!

> If installed, find the "out" tds meter probe tucked under the membrane housing. We need to connect this probe to the male elbow fitting leaving the DI resin filter stage. Cut a small piece of tubing (maybe 2 " or so) to connect / push in the probe to the male elbow fitting.



Typhoon III Extreme (shown with dual tds meter probe installed, tds alarm, di bypass and built in pressure gauge)

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TYPHOON RODI SYSTEM INSTALLATION STEPS (contd)

STEP 2) Install the Drain Saddle. Next, we move on to the drain saddle. It's made up of two

- -

plastic parts and a foam washer. (*Pic #1*) The foam washer mounts onto the drain saddle. Remove the backing paper. Position the foam over the fitting hole in the one half of the drain saddle. This foam makes a water tight seal. The drain saddle has to mount on the drain pipe coming from the bottom of the sink. If you look at any drain pipe, they all have a bend in them



that is called a (P-Trap.) What is important is that you mount the saddle valve on the Pic #2 way down to the P-Trap, not after it. You also want to mount the drain saddle at least one inch higher than the start of the bend, but not more than 4 inches higher. Note you do not want to mount the drain saddle on the garbage disposal line. Once you have positioned the drain saddle on the pipe (Pic #2), leave enough room to attach the tube & for you to work. Just snug the screws. Do not crank down on them, Just snug enough so that the drain saddle



is secure and will not wiggle around. Now you need to drill a hole. Get your 1/4" drill bit out and drill right through the opening in the drain saddle (*Pic #3*). Just use light pressure. Now just drill through the one side of the pipe - don't drill through the other side. Ok, that's done for now. Attach tubing into the blue quick connect fitting in the drain saddle. The waste water is the life blood of the system. If the system cannot drain correctly, it will not function for long. The drain line should never be blocked or restricted (*i.e. restricted beyond the flow restrictor*).

Pic #3

STEP 3) Install the Tap/Feed Water Supply Valve Connection. Now over to the supply valve. It's the aluminum & brass thing (Pic #4). This valve is self piercing. It can be used on copper, plastic piping and the grey flexible pipe found in newer homes. It is NOT designed to work on braided hose; if your home has a braided hose, you will need a braided hose adaptor. Either from us or the hardware store. The adaptor is a Pic #4 watts fitting #BPAV-664. Never install the SV-6 before the stop valve under your sink. This valve is to be installed on the supply tube between the stop valve & the sink faucet. The stop valve is the shut off valve under your sink that allows you to turn off the water, please turn off the cold water supply at this time. IF you are not sure which one is hot or cold... turn on the hot water and touch the water line... the one that is not hot is the cold water line. We will be attaching the SV-6 to the cold water line. If If you look closely at Pic #4 you will see a brass screw in one end. That screw is positioned to push on a block of aluminum with two profiles. If you have the normal pipes found in most homes, use the block in the position found



in *Pic* #4. If your pipe is to fat for it to fit, use the other side. Please leave at least (3) inches between this valve and any other valve on the same pipe or tube. Once you have the valve in position over the cold water pipe, tighten the brass screw. (*Pic* #5) You must tighten the screw enough to give the valve a firm grip on the pipe. Do not over tighten it. Since you have turned off your water, go ahead and pierce the line by turning the brass handle clockwise. The valve is ready to use. We will get back to it once the system is installed.

Pic #5

TYPHOON RODI SYSTEM INSTALLATION STEPS (contd)

STEP 4) <u>Install the Drain Line.</u> Cut a piece of tubing long enough to go from the installed drain saddle fitting (installed in **STEP 2**) into the out port of the fast flush flow restrictor (thing with black handle). Finish this step by connecting the tubing you just cut into these two items quick connect fittings.

STEP 5) <u>Install the FEED / Tap Water Supply Line.</u> Cut a piece of tubing long enough to go from the installed supply valve fitting (installed in **STEP 3**) into the tap water supply "IN" port, which is the **STAGE 1** sediment filter (*bottom right housing*). Finish this step by connecting the tubing run you just cut into these two item's quick connect fittings.

Important! Next, find the inline ball valve in your installation kit. Cut your freshly installed water supply line tubing (6) inches before it enters the cap of the STAGE 1 sediment filter housing. Install the inline ball valve on the two pieces of this newly cut tube. Please note the water direction flow arrow on the inline ball valve. Close this inline ball valve. (blue handle perpendicular to the tubing). Remember! The supply line's inline ball valve can easily be closed if a leak is detected. Next, slowly open your supply connection - if you installed the SV-6 as mentioned in STEP 3 above, turn the brass handle on the SV-6 counter-clockwise until you feel some significantly stronger resistance (open position). At the end of this step, in any event, we want our supply connection open followed by a closed inline ball balve on the supply line going into the system (bottom right housing).

STEP 6) In this next step we will perform what is called a "<u>Fast Flush</u>". Fast flushing is highly recommended to ensure your system operates as intended. New carbon filters have carbon fines/dust that is sent down the drain during the fast flush procedure. Fast flushing prevents your system from clogging (causing slow RO/RODI water production and likely constant drain water).

Fast flushing is also a very convenient way to get the stale water out of your system quickly. Water is a solvent. Water dissolves tds out of the air (carbon dioxide). By fast flushing, you will ALWAYS get more pure water after the flush. This means higher quality water... and if you are sending higher quality water to the di resin cartridge... this means you do not have to replace the di cartridge as often... directly resulting in a significant cost savings !!! Fast flushing also makes the water taste much better on the drinking water side (if you have a drinking water kit connected to our RODI system or one of our dual home reef sytems).

FAST FLUSH FLOW RESTRICTOR POSITIONS

" NORMAL OPERATIONS MODE"



"Normal operations mode" is where we want to be all times, except when fast flushing new filters, etc. "FAST FLUSH MODE" :



"FAST FLUSH MODE", by design, sends most of the water down the drain. Fast flush new filters, before & after any water making & every 2-4 weeks to extend the life of your membrane. Leaving this valve open will, among other things, reduce RO output.

TYPHOON RODI SYSTEM INSTALLATION STEPS (contd)

Pic #6

STEP 6) FAST FLUSH YOUR SYSTEM.

First, ensure your fast flush flow restrictor is in "FAST FLUSH MODE". To fast flush, the position of the black handle must be **parallel** to the tubing, just like the black handle in the circle of **Pic #6**.



If you have a pressure tank, you can close the tank ball valve at this time Next, **OPEN** the RO or **RODI Pure Water OUT** inline ball valve, **your RO faucet,** or DI Bypass (i.e. any pure water outlet).

Finally, <u>TURN ON</u> your tap water supply line's inline ball valve... Congratulations, now you are fast flushing! Fast flush for up to 15 minutes (water should run clear).

STEP 7) After Fast Flushing, turn the fast flush flow restrictors black handle counterclowise 90 degrees. by doing this we enter into normal operations mode.

"NORMAL OPERATIONS MODE"



STEP 8) Open your RO faucet, RO or RODI Pure Water OUT port OR DI Bypass.

<u>Discard the first hour of pure RO water the system makes</u>. For New systems (or whenever you replace your membrane), **perform this procedure**. If you have a pressure tank connected, your RO Pressure Tank's ball valve (blue handle on the top for most tanks) may be turned to the off position during this step (perpendicular to the tubing).

STEP 9) After making one hour of RO water, <u>CLOSE</u> all RO and RODI port(s), DI Bypass, faucets etc... if you have a RO pressure tank, ensure your tank ball valve is in the open position (blue handle parallel to the tubing) and completely fill and empty the RO Pressure Tank before drinking.

STEP 10) Check for leaks. Close all of the pure water valve(s) and allow the system to fully pressurize. This may take several hours. Check for leaks! Check again in a few minutes, then check again in about half an hour and finally after one hour. One last check of your work after 3 days.

Things you should be aware of: **Enjoy your pure water!**

If you have cold water below 77F degrees, low pressure water pressure below (60) p.s.i. or very poor quality water (over 350 ppm tds), your production will vary from the rated output. Each degree lower than 77 reduces the output by about 1.3%. Low water pressure or dirty filters will also reduce the production rate.

Once installed, your system should not produce continuous drain water or produce a vibration or noise after the first few days of usages. You may hear water running to drain. Air trapped in your system will confuse the auto shut off valve or permeate pump. Please wait 3-4 days before calling or attempting repair. The water in the system will absorb the air and the valve will begin to function normally. *TIP!* Tilting system while making water helps remove the air!

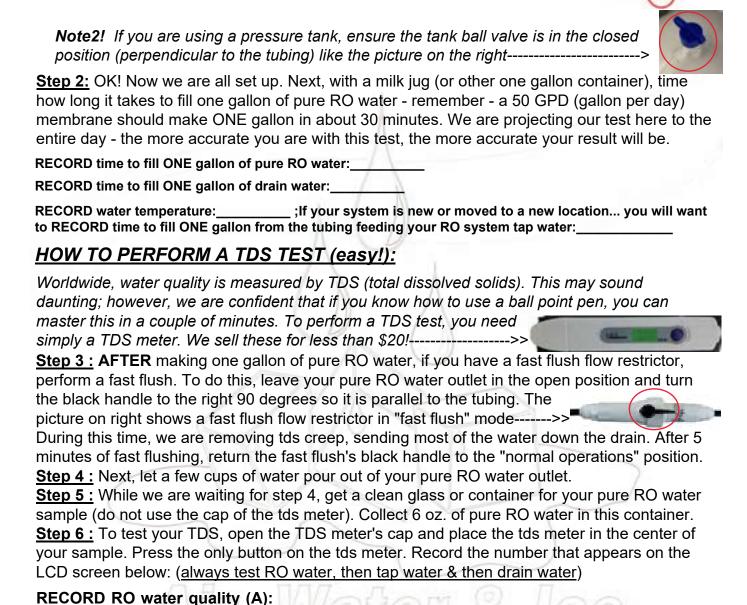
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RO SYSTEM EVALUATION - perform 3 days AFTER installation:

HOW LONG TO MAKE ONE GALLON TEST:

<u>Step 1:</u> Open a pure RO water outlet (either a RO faucet or a inline ball valve's blue handle). The picture on right shows a ball valve that is open----->

Note1! If you have a fast flush flow restrictor, ensure the black handle is in the closed / perpendicular // "normal operations position"---like this ------>



(to find your membranes rejection rate, use a calculator and take:["A" divided by "B" minus 1])

- Average TDS in US homes: = 250 ppm (parts per million) TDS (total dissolved solids)
- o TDS level considered excellent for drinking water:= < 50 ppm TDS.

RECORD YOUR MEMBRANES REJECTION RATE:

RECORD TAP water quality (B):_____
RECORD DRAIN water quality (C):

- o Minimum acceptable rejection rate before it's time to replace your membrane: = 90%
- Average RO water quality for our customers who change filters on time = < 10 ppm TDS.

Water Terminology & FAQ

<u>Pressure Reducing Valve (PRV)</u> This valve is installed when your house pressure is above 70 psi. This valve reduces your line pressure to 70 psi. (Your RO membrane only needs 50-60 psi to operate as designed, so a PRV is an easy plug & play solution to high water pressure that causes continuous drain water & other issues.

<u>Automatic Shut Off Valve ((ASOV)</u> the ASOV is what shuts your system off & prevents your system from making continuous drain water. When the pure water line reaches 2/3 of your incoming water supply pressure, the ASOV will activate and close the prefilter line, preventing water from going into the membrane and the drain.

<u>Fast Flushing</u> Fast flushing is an important maintenance step for your system as it washes the stale water out of your system. For drinking water RO systems, we recommend fast flushing for 5-15 minutes at least once every 2 weeks. For systems with a DI stage, we additionally recommend fast flushing a couple of minutes before & after you make a batch of RODI water as this preserves the life of your membrane & deionization resin.

System Purge Not to be confused with fast flushing above - a system purge is when we run the system for 15 minutes without any filters OR membrane to clean and remove potential clogs. Be sure to flip the black fast flush handle several times during this step and tap the ASOV and/or permeate pump a few times with your hand. This method is the fastest way to resolve clogs on new systems & after filter changes. Although it is rare for a any system to need a purge, needing to perform this step on a new system or location may indicate that you have low house pressure (less than 50 psi) or low flow (less than 1.5 GPM) going into your RO system.

<u>Booster Pump</u> IF you have lower than 50 psi on your water supply line feeding your RODI system water, we advise getting a booster pump. The pump we have sold for 35+ years is very reliable & above else the quietest plug & play pump we have tested. Although our powerstation booster pump is designed for well water applications with 40/60 cut in/out well pump switch's, this pump works great for city water & several other applications - please contact us for applicability if you are not certain at 772-461-0256.

<u>Depressurizing the System</u> To change filters, membranes, remove tubing or open housings we must relieve the pressure in the system. Turn off your water supply going into the system & open a pure RO valve. After a few minutes the system will be depressurized & the tubing & housings will be able to open.

<u>System Life Expectancy</u> We recommend replacing your entire system after 7 years of use. Contact us to receive our best deal. Typically our discount for a system repurchase is less than \$100 difference than if you were to purchase a new membrane and filter pack.

System Environment Your system cannot be exposed to freezing temperatures, hot water, fire or higher than 75 psi water pressure. IF your system was exposed to any of these, you must replace the entire system. IF your system is exposed to direct sunlight, bacteria growth should be expected, filter life & water quality will be less. TDS Test: A TDS meter quickly & accurately lets you know when to change your DI resin & your membrane.

Troubleshooting FAQ's - (please see our online FAQ guide at www.airwaterice.com/pages/faq for more!)

FAQ#1: The vertical DI housing has air trapped inside. Is this normal? It's nothing to worry about. Water is part air (h2o). Normally the cartridge will fill 1/4 of the way full with water when pure RODI water is being made.

FAQ#2: Slow or No pure RO water? RO systems make water at a rate of 2-6 gallons per hour, a slow trickle. If this happened all of the sudden or after changing filters, make sure your fast flush is closed, (black handle perpendicular to the tubing). New systems or new locations for old systems with low water production typically have something to do with either the house pressure being low or less than ideal supply connection. If this has happened over time, it's likely time to replace your filters and/or membrane or if you have a drinking water system with a FULL pressure tank, it is time to recharge the pressure tank.

FAQ#3: No drain water? All RO & RODI systems send water to the drain while operating. If you cannot hear water going down the drain, unplug the drain line & check. Your system will not last very long if no drain water is being made. Disconnect the fast flush flow restrictor from the system. Look through the fast flush into a light. Do you see a small pinhole from both positions (open/closed)? If you do not, it is clogged. Use your water supply line or a air compressor to blow out the debris. This method will also work for a clogged permeate pump. IF this still does not allow drain water to pass, perform a system purge, then a RO system evaluation and contact us.

FAQ#4: Continuous drain water. Please ensure your fast flush flow restrictor's black handle is pointed up, at a right angle, perpendicular to the tubing like this!----->

Note! For rodi systems with DI bypasses installed, please also ensure the blue ball valve's handles to the left of the flow restrictor are in the closed position like this!------

***If you still have drain water after ensuring correct positions above: perform a Fast flush. If your system still makes drain water, you will need to perform a System Purge & RO System Evaluation found in your systems instructions & contact us with the results. If you

don't change your filters or membrane on time, continuous drain water is likely. Having low (below 40 psi) or high (above 75 psi) house pressure will also cause your system to have continuous drain water.



CHANGING FILTERS GUIDE:

Caution!

- o Do not attempt to open a filter that is under pressure.
- o Have a sponge and perhaps a small pail handy. You will spill some water.
- Turn off / unplug any close electrical systems.
- o The floor might become wet and slippery.

Note! This is a general guide. Have the instruction manual for your specific system handy. Your systems manual will go into detail about your systems specific features, valve positions and more!

The Basic Filter Changing Process: (at least every 6 - 12 months)

- step 1: Turn off the water supply going into the RO / RODI system
- step 2: Open a pure RO or RODI water outlet (ro faucet, ball valve OR di bypass) to relieve the water pressure
- step 3: Change the filters
 - 3.1 Unscrew the filter housings & remove the old filters and/or membrane (use the housing wrench).
 - **3.2** Clean the housings with soap & water and rinse thoroughly.
 - 3.3 Change the filters. Note1) When re-attaching the housings, NEVER use the housing wrench to tighten the housings. Note 2) Ensure the housing's O-rings are in place and properly seated before attempting to re-attach the housings. Note 3) For in-line filters, please note the arrow on the filters indicating the directional flow of water. Note 4) All In-line filters have blue dust caps, please remove & discard these in the same way tubing is removed... press in on the collet with your finger or wrench & pull tubing in the opposite direction (see pic)------>

step 4: Fast flush the system_



- **4.1** Turn your fast flush flow restrictor's black handle parallel to the tubing- see picture above.
- 4.2 Next, open a pure RO water line (i.e. RO faucet, inline ball valve, etc). Now you are fast flushing!
- 4.3 Fast flush your system for 15 minutes.
- **4.4** After fast flushing, please ensure you return the flow restrictor's black handle back to the closed (normal operations) position (black handle pointed up perpendicular to the tubing).

step 5: If you are replacing your membrane, discard the first hour of RO water the system makes.

IMPORTANT! Fast flushing sends almost all of the carbon dust/"fines" out of the system & directly into the drain as opposed to potentially clogging your system. Fast flushing is great way to keep your membrane clean & extend the life of your di resin. *Note!* Always fast flush immediately after installing new filters. If you have dramatically reduced pure RO water, little or no drain water, or constant drain water AFTER installing new filters and/or membrane, the following 3 items are the most common reasons why. IF these 3 items don't solve your problem, perform a system purge (see below).

Is your prossure tank prossurized*** ?

Is your pressure tank pressurized*** ?IF you have a DI bypass, is it closed?—

How to PURGE: Step 1: Remove all of your filters & remove the membrane. Step 2: Screw the filter housings & membrane housings back on the system without the filters or membrane. Step 3: Open a RO water line with the fast flush in the closed/normal operations mode for 30 minutes without any filters or membrane. During this step, turn the fast flush's black handle back & forth multiple times & tap the automatic shut off valve (ASOV) and/ or the permeate pump with your hand. Purging clears potential clogs 99% of the time. If this does not work, remove the fast flush flow restrictor. Hold the fast flush up to a light. You should see a large hole when the fast flush is open AND a small hole when the fast flush is closed. If you do not see light through the fast flush in both positions, your fast flush is clogged. To clear the clog: blow through, use a air compressor or your water supply line... this method also works for permeate pumps that get clogged.

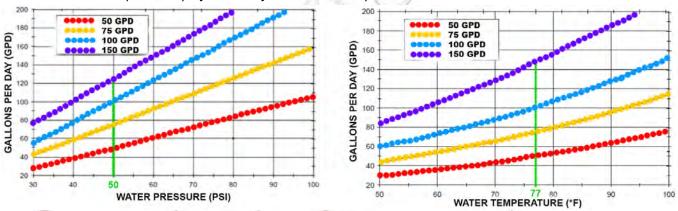
***To recharge your pressure tank, inflate schrader valve to 7-9 psi with the tank empty & ball valve open.

When to change the filters?

The drain water made should be included in your calculation of when to change your filters. Drain water is the lifeblood of your system & essential for pure RO water. We plumb most of our RO systems to get a 3:1 waste to pure water ratio. This means for a filter rated for a 3,000 gallon life, it will be exhausted after we make 750 pure RO gallons as we have sent 2,250 gallons down the drain. Change filters when pure RO water production slows, if a filter look visually dirty, if the filter has reached the end of its filter life rating OR at least every year, whichever comes FIRST. If you have well water or otherwise hard water to begin with, you will need to change filters more often. Please note the membrane is always sold seperately from our filter packs.

<u>Carbon Filters:</u> (Stage 2-3) (*pre-filter*) [life= 3,000 total gallons or 1 year for full 10" carbon filters or 1,500 gallons or 1 year for inline carbon filters remove chlorine, chemicals, taste & odor. The carbon block is vital & required to be changed on time to protect your membrane from exposure to chlorine. Changing carbon filters on time extends the life of your membrane. Among other things, carbon filters protect your membrane from chlorine & chloramines.

Reverse Osmosis (RO) Membrane: (Stage 3-4) (the filter) [life= 6,000 - 15,000 total gallons, 1.5 - 5 years, or when rejection rate drops below 90%. Membranes are normally changed because of slow or no production. The other reason to replace the membrane is production of excessive amounts of poor quality water. Chlorine exposure, inadequate carbon filter replacements or low pressure are usually to blame for a membranes reduced life. Many water chemistry matters go into membrane life expectancy & we cannot accurately predict how your membrane will do. What you must know is when your carbon blocks are exhausted, they allow chlorine to pass through to the membrane. A process called oxidation begins. This initially causes a reduction in pure RO water. Next, your membrane sheets break, putting holes in your membrane & you will have a large amount of poor quality water. When new, RO membranes reject 95-99% of TDS. Over the next 2-5 years, this rejection rate will decrease. You will need a TDS meter to easily perform a TDS test*** to find your membranes rejection rate. Temperature and water pressure play a role in your membranes production. Please see 2 charts below!



<u>Deionization (DI) Resin Filters:</u> (Stage 4-8) (post-filter) [life= minimum 3,000 ppm TDS capacity for our full 10" DI cartridges or [1500 ppm TDS capacity] for our inline di filters. Resin may smell "fishy" when exhausted. The color changing feature of our di resin goes from green or blue to a golden brown color and is a INDICATOR that the resin is exhausted. We recommend performing a TDS test when color changes. A rough mathematical equation of resin filter life: If your RO tds is 10 ppm, take 3,000/10 = 300 gallons of zero tds water before the resin is exhausted & needs replacement.

Ultra Violet (UV): (post-filter) [life= 1 year] UV lights will make a humming noise when in need of replacement. Another way to check is temperature, a working light produces a warm housing.

Mineral Filters (calcium and magnesium) (post-filter) [life= 1,000 gallons or 1 year]

***How to perform a tds test? ALWAYS make one gallon of pure RO water before a TDS test to avoid testing the stale "tds creep" water in your system. Get a clean glass. Pour about 6 oz of pure RO water in the glass. Put your TDS meter in the glass & press the button on the TDS meter. Record the number. Pour out the glass and then test your TAP water, & then test your DRAIN water. Don't use the cap of the TDS meter - again, you want to sample about 6 oz of water! As always, we are committed to your success. Please contact us with any questions!

Questions? Call or text: 772-461-0256 / email: sales@airwaterice.com or visit us online at www.AirWaterIce.com