Owners Manual

For Reverse Osmosis Systems

Model: ET4000

P/N: 1-1310-10

Models: ET5000/ ET6000

P/N: 1-1320-10

Includes: Installation and Service Procedures, Specifications and Operation Guidelines



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INTRODUCTION

Congratulations, you have purchased one of the highest quality Reverse Osmosis, "RO" systems available today. This unit combines a series of different filtration processes into one single module that makes bottle-quality water right in your own home or office. This system has been engineered with only the finest quality components and materials. The system works connected to most potable city water supplies.

IMPORTANT: ONLY USE ON POTABLE WATER SUPPLIES

- Obtain all materials and tools needed for installation before starting.
- Please read entire manual carefully before proceeding with installation. Failure to follow manual's guidelines could cause personal injury or property damage. Be sure to check household plumbing for signs of leaks, corrosion and aging. Correct these problems before attempting to install your new RO system.

Many Uses and Benefits of Reverse Osmosis Water

- 1. Quality Drinking Water.
- 3. Car Batteries and Window Washer.
- 5. Drinking water for pets.
- 7. Some humidifiers.
- 9. Making coffee, juice and teas.
- 11. Rinsing vegetables.
- 13. Rinsing hair after washing.
- 15. Office coolers.

- 2. Quality Ice Cubes.
- 4. Removing some carpet stains.
- 6. Watering plants.
- 8. Washing windows.
- 10. Use for cooking.
- 12. Brushing teeth.
- 14. Steam irons.
- 16. Bottled Water.

TOOLS & MATERIALS RECOMMENDED FOR NORMAL INSTALLATION	CONTENTS OF PACKAGE
 Adjustable Wrench (2) Phillips Screw Driver 3/8" drill motor with a 3/8" drill bit Teflon Tape Safety Glasses Optional-Faucet Installation (Step 2) 1-1/4" hole saw appropriate for sink material to be drilled Optional-Ice Line to refrigerator (Step 8) 3/8 " polyethylene or polypropylene tubing. 3/8 x 3/8 x 3/8 plastic compression T-fitting 	 Filter Pac/RO module Storage Tank Owner's Manual Warranty Registration Card Standard air-gap faucet or optional colored faucet Parts Bag: Easy Tap Adapter w/washer (plastic) Drain Clamp (black plastic) 1/4" Coupler (plastic) for use w/air gap faucet Faucet Adapter plastic (7/16" fip x 3/8" push) Tank Ball Valve Mounting Screws Water quality monitor (ET5000/ ET6000)

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SPECIFICATIONS & LIMITATIONS				
Incoming Water Supply:				
РН	3 minimum to 11 maximum			
Water Pressure	40 psi minimum to 85 psi maximum			
Total Dissolved Solids (TDS)	2000 ppm maximum			
Temperature – Air and Water	40° F minimum to 110° F maximum			
Hardness	Water Softener Recommended Over 10 GPG			
Iron Content	<1 PPM Maximum			
System:				
System Dimensions	16"X15.5"X7"			
Storage Tank Dimension	15.5″X11″			
Rejection Rate	Up to 98% TDS *			
Storage Capacity	Up to 3.2 Gallons*			
Production Capacity Membrane Rating	24 gallons per day *			

^{*}NOTE: These specifications are not the certified results and can vary greatly depending on feed water makeup, i.e. pressure, temperature, TDS, and hardness. See Performance Data Sheet for the actual WQA Certified results under standard test conditions on page 14. Regular maintenance and filter replacement are necessary for system's performance and longevity.

WARNINGS	

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- 1) Only use with potable water supplies (Water must be microbiologically safe).
- 2) Installation of RO system must comply with state and local laws and regulations.
- 3) Check for leaks after installation or service as system is reaching standard operating pressure and temperature. Check for leaks periodically thereafter. A system may be inadvertently moved or jarred while other items are moved under the sink. If a fitting is accidentally loosened, a leak could result causing damage to your cabinet.
- 4) **Do not let system freeze**. Allow system to warm up to room temperature before installing. It is best to be installed indoors with air temperature between 60° 85° F.
- 5) Attach to cold water supply only.
- 6) A water-softening appliance is recommended if hardness of incoming water supply is over 10 grains of hardness to increase filter life.
- 7) Never drain RO tank completely without first turning off the refrigerator icemaker.
- 8) Air-gap faucet may cause a slight noise at first but noise should diminish in about a week. If noise continues, adjusting drain clamp may help reduce noise. Also, install faucet so air-gap faucet hole will drain into the sink if drain line gets plugged from obstruction in the drain line.
- 9) Water containing iron in excess of 1ppm will require some pretreatment. Consult your local water authority.
- 10) This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.
- 11) Failure to follow recommended service intervals or use of filters and parts other than those recommended by the manufacturer may void warranty.
- 12) Drain RO tank completely at least twice a year. If daily use averages less than a gallon per day, drain every two weeks. (See page 2 for variety of uses)
- 13) We recommend having all porcelain/ enamel-coated sinks professionally drilled.
- 14) Sanitizing most RO systems on a yearly basis is important for reducing bacteria build-up.

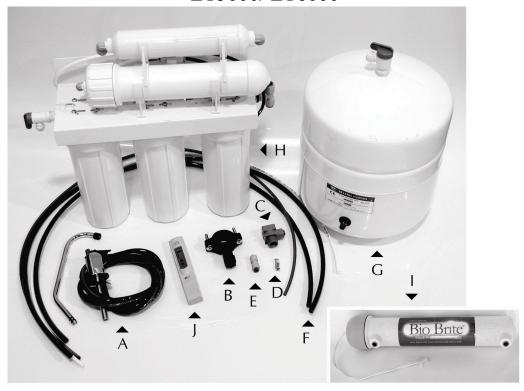
PHOTO OF RO AND PARTS

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ET5000/ET6000



- A. Faucet and tubing
- B. Drain clamp
- C. Easy Tap Adapter
- D. Screws
- E. Union Coupling
- F. R/O tubing

- G. Storage tank with ball valve
- H. Filterpac Unit (image may vary from model in box)
- I. Biobrite UV module attached to top of filterpac on ET6000 model only
- J. Water quality monitor (ET5000 & ET6000)

INSTALLATION PROCEDURES

STEP 1 - POSITION SYSTEM

A. The RO system needs both a water supply and access to a drain. The RO system is designed to fit under most sinks. The kitchen sink is the most common location for the RO install. Remove all system components from boxes and determine the location for placement of the Filter Pac/RO module, tank, and faucet.

If you desire to hang the Filter Pac/RO module, use mounting screws, placing them to align with holes in the bracket (make sure the cabinet wall is thick enough to support the Filter Pac/RO module and that the mounting screws will not pierce through the wall). Hang Filter Pac/RO module to assure sufficient space is allowed. Remove Filter Pac/RO module from the wall for now and continue with install.

STEP 2 - INSTALL RO FAUCET

A. Check for an extra hole in the sink. You must drill a 1 ¼" hole for the faucet if the sink does not have one.

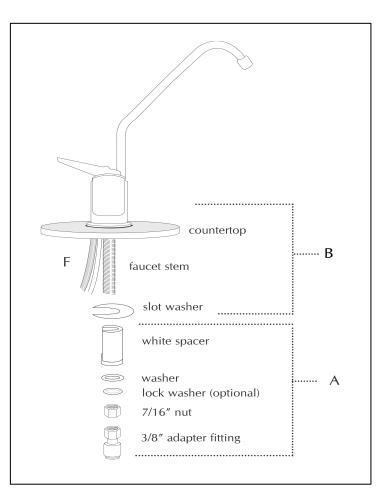
Determine Location of Faucet Hole. Check underneath sink before drilling. Make sure there are no obstructions.

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<u>Drilling a Stainless Steel Sink</u>. Drill a 1 ¼" hole with a hole-saw or hole punch for an air-gap faucet. Smooth out rough edges with a file if necessary.

A Porcelain/Enamel-Coated Stainless or Cast Iron Sink. The manufacturer recommends having this type of sink professionally drilled because of possibility of chipping or cracking. If you are attempting to drill, use extreme caution. Obtain the proper tools necessary to drill through the sink material. Follow the drill manufacturers instructions for your type of sink. Place an old towel under the sink to catch any metal filings and to make clean up easy. After drilling, clean up metal filings quickly to avoid staining the porcelain.

- B. <u>Install Air-gap Faucet</u>. Pre-assemble faucet prior to installing on the sink. Place the <u>white spacer</u> onto faucet stem flat side toward tubing and open end upward. Slide spacer up the stem leaving enough room for the thickness of the sink. Place the <u>washer</u> onto the stem and thread on the 9/16" nut up to the spacer. Attach the plastic 3/8" faucet adapter fitting to the base of the faucet stem (**Do** not over-tighten). (See A in figure on the right).
- C. Guide the (2) tubes and the faucet stem through the hole on the sink until the faucet rests on top of the sink. Center the faucet over the hole. Position the faucet so the air-gap hole and the faucet lever point toward the sink basin (in case drain tube plugs causing water to spill out of the air-gap hole). Insert the slotted washer under the sink between the white spacer and the base of the sink. Tighten the 9/16" nut securing the white spacer tight against the sink. (See B in figure on the right). Faucet may require repositioning before final tightening. Remove short packing tubing from top of faucet and insert faucet spout by pushing spout straight into the hole until it seats.



STEP 3 - INSTALL EASY TAP ADAPTER

- A. Turn off cold water supply to the sink faucet and relieve pressure by opening the cold water faucet. (Repair any existing plumbing sink leaks before continuing). Follow water supply from the cold water supply valve, toward the sink faucet, until you reach a coupling nut (may be at the base of the faucet). Unscrew the coupling nut. Place rubber washer into the plastic easy tap faucet adapter and screw adapter onto location of coupling nut. Hand-tighten, then tighten one more complete turn with a wrench. Re-attach the supply line to the adapter with the coupling nut. Leave the cold water off.
 - **CAUTION**: 1. When tightening easy tap, make sure the tube to which you are attaching the easy tap is not twisted. Use two wrenches to hold existing tube while tightening the easy tap adapter.
 - 2. Examine existing cone shaped washer on water supply tube, adjust or replace if damaged or worn (not included).

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3. If <u>self-piercing valve</u> is used instead of easy tap, attach to hard copper tubing only. Do not over tighten screws (see instructions on piercing valve package, not included).

Fittings Note: "Push-In Quick-Connect" style fittings are designed for ease of use. Simply push the tubing in until it seats. Give a tug on it to make sure it is secure. Insert red locking clip between fitting and collar. If you need to remove the tubing, remove the red locking clip, hold the locking ring collar against the fitting while pulling out the tubing. No inserts or nuts are used with the push-in style fittings.

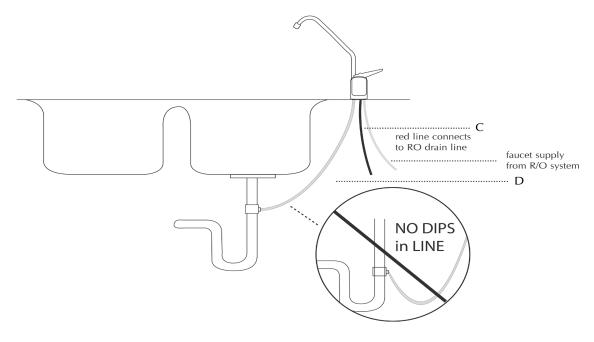
STEP 4 - INSTALL DRAIN CLAMP

A. <u>Location of Drain Clamp</u>

1. <u>Sink With Disposal</u> - Select location to place drain saddle clamp. Best choice is the vertical pipe as near the sink as possible making certain that the drain clamp is above the horizontal garbage disposal waste pipe. When connecting the black drain tube to drain saddle clamp keep the tube run as straight as possible and that there are no dips, loops, low spots or kinks. (See D in figure below). Also, to reduce noise, assure that RO drain line enters the vertical pipe from a direction other than the direction of entry of the garbage disposal pipe.

Or

- 2. <u>Sink Without Disposal</u> Best choice is the vertical pipe about 4" above the water level in the trap.
- B. <u>To Install- Drill a 3/8"</u> hole through one side of the drainpipe. Align the hole in the drain clamp with the hole in the drainpipe. Tighten down the drain clamp snuggly so it will not move on drainpipe.



STEP 5 - PREPARE STORAGE TANK

- A. Wrap the threads on top of the tank with 6 wraps of Teflon tape (do not use any type of pipe compounds).
- B. Screw tank ball valve onto the top of the tank (approximately 4 to 5 full turns **do not over-tighten**). Check for leaks once RO is pressurized and while tank is filling and again when tank is full.
- C. Tank is pre-charged with air pressure. Tank can be laid on its side if necessary (tank will hold approximately 2 to 3 gallons of RO water depending on water pressure, tank positioning, and tank air pressure).
- D. Tank pressure can be increased to improve water flow to the faucet or refrigerator. Air pressure can only be tested when tank is completely empty of water. Air pressure of 5-PSI minimum, 12-PSI maximum is recommended. The

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higher the air pressure the smaller the volume of water the tank will hold. Pressure of 10-12 PSI may be necessary to feed a line to the refrigerator. Over pressurizing may ruin the tank.

STEP 6 - CONNECT TUBES

IMPORTANT: Fitting manufacturer requires fittings to be re-checked after system reaches full operating pressure and temperature, Re-tighten and secure as necessary.

It is not recommended to shorten the length of any tubes during installation (except black or red 3/8" drain tube on air gap faucet). This will make future servicing easier.

- A. <u>¼" White Supply Tube on Filter Pac/RO module</u> Connect the supply (white) tube firmly into the push-in port on the side of the easy tap adapter installed on the cold water supply line. Optional: If self-piercing valve is used, connect to valve using brass nut, tubing support, and ferrule, (not included).
- B. ½" Red Drain Tube on Filter Pac/RO module Air-Gap faucet system Use the coupler from the parts bag to connect the ¼" red drain tube from the faucet to the red tube from Filter Pac/RO Module. (See C in figure above). Push firmly so tubes will not pull out of coupler or leak.
- C. <u>3/8" Black Drain Tube from Faucet</u> Connect this tube to the black 3/8" drain clamp. (See D in figure above). Tighten firmly so tube will not pull out of drain clamp. <u>Important</u>: **Do not leave excessive slack in drain tubing. Shorten tubing so that it flows directly to the drain with no dips, loops, low spots, or kinks.**
- D. <u>Post Filter Connection to Faucet</u> Depending on the model, connect the 3/8" blue tube from either the outlet side of the post-filter bowl or the outlet fitting from the 10" inline post-filter cartridge to the 3/8" push-in adapter fitting on the RO faucet.
- E. <u>RO Tank Connection</u> Depending on the model, connect the 3/8" blue tube from either the tee of the inlet side of the post-filter bowl or the tee of the inlet side of the 10" inline post-filter cartridge to the push-in ball valve on top of the RO storage tank.

STEP 7 - SYSTEM START-UP PROCEDURES

Turn your sink cold water supply valve to the on position while leaving the Filter Pac/RO module and RO tank ball valves in the off position (horizontal, which is perpendicular to the valve). Check for leaks and adjust as necessary.

- A. Slowly turn Filter Pac/RO module ball valve to the on position (blue valve vertical, which is in line with the valve). As water enters the filter bowls and makes its way through the filters to the membrane element you will hear air escaping through the drain. This is normal. Open RO faucet on the sink until the water starts coming out. (Water flow will only be a trickle and may take up to 20 minutes before water starts to come out of the faucet spout on some units). Shut RO faucet off and check for leaks and adjust as necessary.
- **B.** Open the tank ball valve by turning handle a ¼ turn toward the tubing. Let tank fill for 4 to 6 hours (if you are changing filters, your tank may already be full, so you would not need to wait). Then turn on RO faucet and drain tank completely, (approx. 5 minutes). Shut RO faucet off, allow tank to refill, and drain again in 4 to 6 hours. The

RO system is shipped with a food grade preservative and must be flushed out prior to use. **DO NOT DRINK THE RO WATER UNTIL TANK HAS BEEN DRAINED TWICE.**

C. Shut RO faucet off and let system fill again. RO water is now ready for use.

IMPORTANT: Check carefully for small leaks every few hours for the first few days to assure there are no leaks. It is wise on any RO system to inspect for leaks since the system sits unseen underneath your sink and a small leak may not be detected without close inspection. Check for leaks occasionally thereafter and make adjustments as necessary

STEP 8 - REFRIGERATOR HOOK UP

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- A. If there is not an ice-line from the RO to the refrigerator, you may choose to run an ice-line so that your ice and water dispenser will have filtered water. If the distance from the refrigerator to the RO is more than 50', we recommend 3/8" polypropylene or polyethylene tubing for best results. **DO NOT USE COPPER**. (Be sure you have the recommended water pressure to your icemaker according to the refrigerator manufacturer's specifications.) 3/8" tubing, a supplemental storage tank, more RO air pressure, or different usage patterns, may be required to supply adequate pressure!
- D. Connect tube (not included) to appropriate refrigerator connection and to a plastic "T" fitting (not included) spliced into the 3/8" blue tube between the post filter and faucet. It is recommended to install a ball valve on the tube to the refrigerator for service and start up purposes. Keep ball valve off until start up procedures are completed and RO tank is completely full after the second tank draining.

IMPORTANT: Never turn on icemaker before RO tank is full of water to avoid damaging refrigerator solenoid. If your refrigerator has a water dispenser in the door, upon initial start-up you will need to depress the water supply lever 2 to 3 minutes before the water will dispense.

STEP 9 - RECOMMENDED FILTER SERVICE LIFE

The types of filters listed below vary depending on RO system style. The manufacturer provides very high capacity carbon filters and replacement intervals are based on our filters. Other filters may not have the same capacity as original factory filters and may not last as long. Water conditions vary greatly by region and can affect filter change intervals. For filter change interval recommendations, follow the guidelines below. If in doubt, contact the manufacturer.

- A. <u>Sediment Pre-filter</u> These are the only filter(s) that you can visually inspect. They are white when new and will turn dark with dirt and sediment when changing is necessary. A water softener will extend the life of the filter(s). Inspect every 6 months or sooner in bad water conditions.
- B. <u>Carbon Pre-filter</u> These filters should be changed at least once a year. Changing these filters is necessary to help insure membrane life and water quality. <u>Use of high capacity carbon block filters is recommended</u>. Granular carbon filters are **not recommended** because they release excessive carbon fines at initial start-up, which can reduce the life of the membrane element.
- C. <u>RO Membrane</u> The RO membrane element is a replaceable component critical for effective reduction of TDS (Total Dissolved Solids). The RO membrane should be changed when TDS rejection rate falls below 75%. The rejection rate should be tested periodically to insure optimal performance. The membrane typically lasts 2-5 years depending on influent water quality and hardness. See performance indicator information listed below. *
- D. <u>Carbon Post-filter/ Carbon MAP Filter</u> These filters need to be changed at least every 12 months to insure quality water. <u>Do not wait until taste is a problem.</u>
- E. <u>Biobrite UV Cartridge</u> The UV cartridge should be changed once a year. **Warning: Never look directly at the UV** bulb while it is on! May cause serious eye damage! Always unplug UV unit before servicing.

To send water samples for TDS testing to the manufacturer do the following. Using 2 clean containers put approximately ½ cup of tap water in one container and ½ cup of RO product water in the other container. Send both samples to the manufacturer along with your contact information.

To order replacement filters or locate a source in your area call the factory: AmeriFlow Water Systems Inc. 602-275-4188.

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^{*} Performance indicator. The RO system contains a replaceable treatment component critical for effective reduction of TDS (Total Dissolved Solids). The product water shall be tested periodically to verify that the system is performing properly. Testing can be accomplished by contacting the service company that installed your RO system or an authorized dealer. If a service company is not available in your area a water sample may be sent to AmeriFlow for a free TDS test of your RO water. Additionally a water quality monitor is available for purchase from the manufacturer that will allow the product water to be tested at home.

Replacement filters – Part Numbers – Replacement Frequency

	6	MO 1 YEAR		1 YEAR	2	– 5 YEARS		1 YEAR		1 YEAR
RO MODEL	PRE-	SEDIMENT	PRE-CA	ARBON	MEMB	RANE	ECT C	ARBON	POST	CARBON
ET4000										
1-1310-10	N/A		CB05	#135-1210-1	TF24	#138-124-1	CB-A	#135-1210-2	CB	#135-1210-2
ET5000										
1-1320-10	P1	#136-1110-1	CB05	#135-1210-1	TF24	#138-124-1	CB-A	#135-1210-2	10C4	#135-3110-1
ET6000									UV	#150-060
1-1320-10	P1	#136-1110-1	CB05	#135-1210-1	TF24	#138-124-1	CB-A	#135-1210-2	10C4	#135-3110-1

STEP 10 - FILTER CHANGING PROCEDURES

- A. <u>Sediment and Carbon</u> Turn Filter Pac/RO module ball valve to off position. Turn tank ball valve off. Turn on RO faucet to help de-pressurize system. Unscrew filter bowls by turning counter-clockwise. Remove old filters and discard. Clean filter bowls if needed in warm, soapy water. Insert new filters into appropriate filter bowls. Make sure o-ring at top of filter bowl is clean, lubricated and seated properly when tightening. If changing the post filter, do so now following the same procedure as the pre-filters. Follow Step 7 Start Up Procedures. Check for leaks and adjust as necessary.
- B. <u>RO Membrane</u> Turn RO tank and water supply off. Turn on RO faucet to help de-pressurize system. Disconnect white tube going into membrane housing. Unscrew end cap of membrane housing. Have a towel and a bucket handy because some water will pour out. Pull out old membrane and clean membrane housing if necessary with warm, soapy water. Insert new membrane in the same direction as old membrane. Push firmly up to properly seat RO membrane. Replace end cap and reconnect white tube to membrane housing. Follow Step 7 System Start Up Procedures. System should be sanitized each time membrane is changed. (See Recommended Sanitizing Procedures). Test TDS (Total Dissolved Solids) rejection rates and be sure the rates are over 75%. A TDS monitor is optional on some models and included on others. If your unit did not come with a monitor, you can order one or seek advice from a local water treatment service company. A new membrane should perform between 90-98%. Check for leaks and adjust as necessary.

STEP 11 - RECOMMENDED SANITIZING PROCEDURE

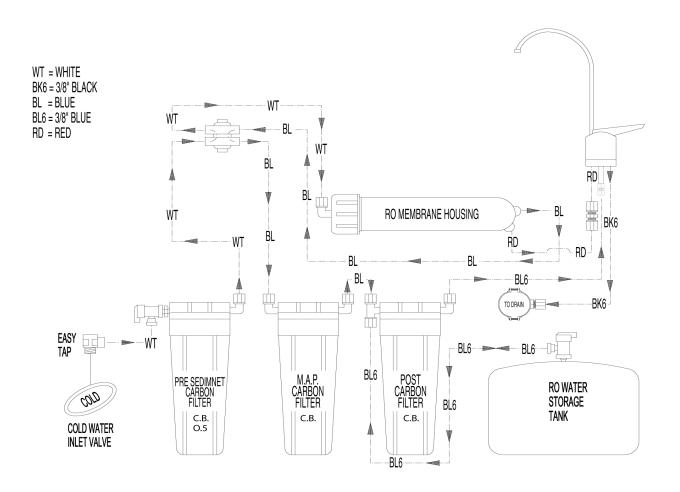
The manufacturer recommends having your system professionally sanitized once a year. The best time to sanitize is when changing all the filters and/or when changing the membrane.

- A. Drain all water from RO tank by turning on RO faucet until water stops flowing. Follow Filter Changing Procedures (assuring ball valve on tank and Filter Pac/RO module are in off position). Remove old pre-filters and membrane from housings. Remove the post-filter. On the ET5000 a 3/8" union, and on the ET6000 a 1/4" X 3/8" reducer union, (not included), will be necessary to reconnect the tubing together without the post-filter installed during sanitizing procedures.
- B. Carefully put 2 capfuls of household bleach into the empty filter bowl canisters. Re-install filter bowls without filters. **CAUTION**: Be careful not to splash bleach on hands or surfaces.
- C. Turn water supply on (open ball valve on tank and RO module) and let system fill for 4 minutes with tap water. Shut system off. Turn RO faucet on until water comes out and then shut it off.
- D. Let entire system sit for about 30 minutes to sanitize. Then turn on RO faucet and let system drain until empty. Turn off water supply valves and empty water in filter bowls. Re-install filter bowls. Turn the water supply on again. Turn off faucet and let system refill with tap water as before. Drain again. Install new filters following the Filter Changing Procedures Step 10. Follow System Start Up Procedures Step 7.

STEP 12 - SERVICE AND MAINTENANCE RECOMMENDATIONS

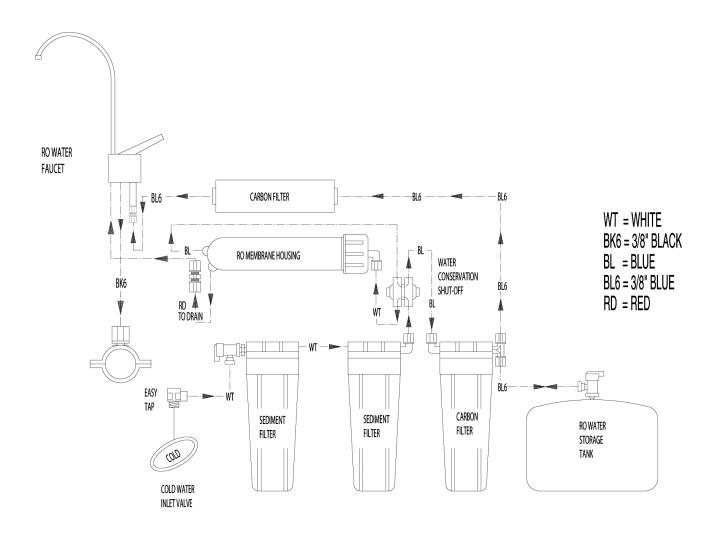
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All Reverse Osmosis systems require periodic maintenance to insure the continuation of water quality. Test TDS rejection rates at least every 6 months. Changing filters is important for continuous good water quality. Filters need to be replaced at recommended intervals as old filters may retain a considerable amount of debris and contaminants. Failure to change filters, use of lower quality filters, or improper sanitization can dramatically reduce membrane life and water quality. DO NOT WAIT UNTIL YOUR WATER TASTES BAD TO REPLACE YOUR FILTERS. Remember - most contaminants do not have a foul taste except in extreme quantities. Testing the check valve, flow restrictor, incoming water pressure, water hardness, and TDS levels periodically are important to help extend membrane life and overall water quality. Your local water professional can easily perform these tests. Failure to follow proper maintenance instructions, use of filters or parts other than those recommended by the manufacturer, or use of an unauthorized service agent may void your warranty.



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ET5000

	ET4000-5000-6000 REPLACEMENT PARTS LIST					
Quantity	Part Number	Description	Quantity	Part Number	Description	
1	103-0504	Easy Tap Adapter	1 (1)*	805-40-06	Fitting 1/4" mpt x 3/8" JG Elbow *(ET6000)	
1	419-1404-1	1/4" JG 90 Ball Valve	1	125-124	RO Faucet, Specify Color	
2	804-11-04	1/4" Hex Nipple	1	805-25-04	Faucet Adapter 3/8" x 7/16" fpt	
1	419-1406	3/8" JG 90 Ball Valve, Storage Tank	1	805-15-04	1/4" Union JG	
2 (3)*	805-40-02	Fitting 1/4" mpt x 1/4" JG Elbow *(ET6000)	1	124-462	Drain Saddle Clamp	
1	123-541	Water Conservation Shut-Off Valve	3	127-1101	Filter Bowl Canister	
1	128-00	RO Membrane Housing	3	127-1R	O-ring, Filter Bowl canister	
1	128-R	O-ring, Membrane Housing	6	805-LC-06	3/8" Locking Clip JG	
2	805-40-04	Fitting 1/8" mpt x 1/4" JG Elbow	11	805-LC-04	1/4" Locking Clip JG	
1	121-1604-1	Check Valve Fitting 1/8" mpt x 1/4" JG Elbow	2	122-321	Clips, Membrane	
1	129-260	Flow Restrictor, 260 ml	2 (4)*	122-24321	Clips, Post Filter *(ET6000)	
1	110-03181	3.2 Gallon Storage Tank	1	120-131	Bracket	

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1	805-40-042	Fitting 3/8" stem x 1/4" JG Elbow	1	114-10	Water Quality Monitor
1	805-70-06	Fitting Union 3/8" JG Tee	1	150-060	U.V. Cartridge With Transformer
1	805-S10-06	Fitting 1/4" mpt x 3/8" stem			

PROBLEM	CAUSE	SOLUTION
Cloudy ice cubes or milky colored water.	- Bad membrane.	- Replace Membrane and sanitize when below 75% rejection - High oxygen content
	- Water supply.	- Some refrigerators freeze differently, leaving the ice cube
	- Refrigerator.	looking cloudy. Let cube dissolve in glass of water. If just air, will float to surface and dissipate.
	- System is still new.	- This is normal and should clear up in two weeks.
Noisy drain or faucet.	-Air gap faucet.	- A little noise is common with air gap faucets. Check manual to
Noisy diam of faucet.	7/III gap laucet.	be sure installed in proper location. Allow two weeks for air to work out of system.
	- Drain tube.	-Check that drain tube from faucet is continuously down hill to
		drain. Loops or dips will cause noise. Disconnect drain tube
Halana Garanta Indian	During days although	and clean free of debris.
Hole on faucet is leaking.	- Drain clamp slipped.	- Align drain clamp hole with drainpipe hole Shorten drain tube from faucet until smooth down hill flow to
	- Drain tube loops or dips.	drain.
	- Restriction in drain tube.	- Disconnect drain tube and clean out restriction.
Filter bowl canister leak.	- O-ring not sealed properly.	- If damaged, replace. If dirty, clean, lubricate and retighten filte
The bow canse reak.	o ring not scared property.	bowl. Hand tighten firmly.
Water does not taste or smell right.	- Bad membrane.	- Replace membrane when below 70-75% rejection and sanitize
Tracer does not taste or sinen ng	Jaa memorane.	-Replace filters. Should be replaced every 6 to 12 months.
	- Filters have expired.	- Drain or use entire tank. Should be done every 2 weeks if low
	- Little water use.	water use.
		- Sanitize (see Sanitizing Instructions) and replace filters.
	- System needs sanitizing.	
Little water from faucet.	- Over pressurized tank.	- When empty, tank pressure should be between 5-12 psi.
	- Incoming water pressure is below 40-psi	- Increase pressure to 40-psi with a pump.
	-New system or filters just changed.	
	- Bad check valve.	- System takes 4 to 12 hours to completely fill.
	- Tank valve not open.	- Replace check valve. - Open valve.
	- Bad storage tank.	Replace storage tank. If not bad check that tank air pressure is
	- Filters clogged.	between 5-12 psi when empty.
	- Kinked tube.	- Replace filters.
		- Unkink tube. If damaged, replace tube.
System is continually running.	- Shut off valve not working.	- Replace shut off valve.
,	- Low city supply water pressure.	- Increase water pressure to 40-psi with a pump.
	- Bad check valve.	- Replace check valves.
	- Ice being made in refrigerator.	- Nothing you can do, ice is made on demand.
	- System is new.	- Allow 2 weeks for air to bleed.
Ice maker not working	- Ball valve to ice line is off.	- Turn on ball valve.
	- Icemaker in refrigerator is off.	- Turn to on position.
	- Ice maker line frozen.	- Thaw with hair dryer. Make sure you have a full tank of water before turning icemaker on.
	- Tube to refrigerator is kinked.	- Find kink and repair.
No water out of refrigerator door.	- 1-quart reservoir not full.	- Hold down dispenser handle for approximately 3 minutes until
. to trace out of ferrigerator door.	- quart reservoir not run.	water comes out. Make sure RO tank is full.
Makes water slowly.	- Normal RO process.	- Your RO system makes water a drop at a time. 3-gallon storage
,		tank should be full in 4-12 hours.
	- Low city water pressure.	- Increase to 40-psi. with a booster pump.
	- Kinked tubing	- Find kink and repair.
	- Filters plugged.	- Replace filters.
	- Bad membrane.	- Replace membrane.

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Performance Data Sheet NSF/ANSI 58

Reverse Osmosis System

Model Numbers: 1-1310-10, 1-1320-10 | Replacement treatment components: see step 9, page 10. General Installation/Operation/Maintenance Requirements

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before of after the system.
- This reverse osmosis system contains a replaceable treatment component critical for effective reduction of total dissolved solids. The product water shall be tested periodically to verify that the system is performing properly.
- While testing was performed under standard laboratory conditions, actual performance may vary.
- See Owner's manual for Manufacturer's limited warranty.
- This system has been tested and shown to operate at its calculated recovery rating and efficiency rating under standard test conditions.
- Chlorine in the influent water may affect the R/O membrane polymers.
- See Owner's manual for complete installation / operation and maintenance requirements,



This system has been tested and certified by the Water Quality Association according to NSF/ANSI 58 as well as user responsibility and parts and service availability. This system has been tested according to NSF/ANSI 58 for reduction of substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 58.

PERFORMANCE CLAIMS

Contaminant	Average Influent Concentration (mg/L)	Average Effluent Concentration (mg/L)	Average Percent Reduction	Maximum Effluent Concentration (mg/L)
Barium	9.4	0.001	> 99.9	0.001
Cadmium	0.029	0.0015	94.8	0.004
Copper	2.8	0.02	99.2	0.05
Turbidity	16 NTU	0.13 NTU	99.1	0.17 NTU
Fluoride	7.7	0.25	96.7	0.4
Lead	0.15	0.002	98.6	0.008
Radium 226/228	25 pCi/L	5 pCi/L	80.0	5 pCi/L
Selenium	0.13	0.003	97.6	0.009
TDS	717	44	93.8	133

* Performance indicator. The product water shall be tested regularly to verify that the system is performing properly. Testing can be accomplished by contacting the service company that installed your RO system or an authorized dealer. If a service company is not available in your area a water sample may be sent to AmeriFlow for a free TDS test of your RO water. Additionally a water quality monitor is available for purchase from the manufacturer that will allow the product water to be tested at home.

Daily Production Capacity	9.2 gpd
Rejection Rate	93.8%
Storage Capacity	2.5 gallons
Recovery Rating*	18.7%
Efficiency Rating*	12.2%
System Weight	27 lbs.
System Dimension	16"x15.5"x7"
Storage Tank Dimension	15.5" x 11"
Min./max. pressure	40 – 85 psi
Min./max. temperature	40° - 110° F

Test parameters: 25°± 1°C, 50 psi, and pH of 7.5

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^{*}Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed. Efficiency rating means the percentage of the influent water to the system that is available to the user as RO treated water under operation conditions that approximate typical daily usage.

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MANUFACTURER'S WARRANTY

REVERSE OSMOSIS / FILTRATION LIMITED WARRANTY

Your Reverse Osmosis / Filtration system is warranted to the original owner from date of purchase as indicated below.

Factory labor to repair or replace defective component(s) covered by warranty for:

Model ET3000 1-year from date of purchase
Model ET4000 1-year from date of purchase
Model ET5000/ ET6000 1-year from date of purchase

The membrane is warranted to be free from material defects and provide a minimum of 75% TDS rejection for:

Model ET3000 3-years from date of purchase
Model ET4000 4-years from date of purchase
Model ET5000/ ET6000 4-years from date of purchase

The tank and faucet components are warranted to be free from material defects for:

Model ET3000 3-years from date of purchase
Model ET4000 4-years from date of purchase
Model ET5000/ ET6000 5-years from date of purchase

All filters are warranted to original owner to be free from material defects for the service life specified in the owner's manual or for 1-year from date of purchase, which ever is less.

All other components are warranted to original owner to be free from material defects for a period of 1-year from date of purchase.

Please read carefully the installation, maintenance, and specification manual. Divergence from these instructions or use on non-potable water supply will void your warranty.

DO NOT CONTACT THE LOCATION WHERE YOU PURCHASED YOUR EQUIPMENT. For warranty service contact the manufacturer. Send or deliver the defective component or unit to the manufacturer for inspection, freight prepaid, with a copy of sales invoice and manufacturer's warranty. The parts or unit will be repaired or replaced at our option and returned to the customer, freight prepaid.

This warranty does not cover any defects or damage resulting from water pressure exceeding 85psi, misuse, misapplication, neglect, alterations, accident, improper maintenance or installation contrary to manufacturer's printed instructions and specifications, casualties, fire, flood, Reverse Osmosis drain line plugging, sediment/scale fouling, water temperatures over 110°F, freezing, environmental factors, or acts of God

This warranty is void if equipment is moved from original installation site or repaired by an unauthorized service agent or if not using AmeriFlow approved filters and components. This warranty does not cover systems used outside the United States.

This warranty does not cover any consequential damages, including travel expense, telephone charges, loss of revenue, loss of time, inconvenience, loss of use of the equipment and/or its failure to function properly

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THIS GUARANTEE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. WATER SYSTEMS INC. WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES SUFFERED BY CUSTOMER ARISING FROM ANY DEFECT OR MALFUNCTION IN THE UNIT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

AmeriFlow™ Water Systems Inc. 525 W. 21st St., Tempe, AZ 85282 U.S.A. · 1-602-275-4188

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WARRANTY REGISTRATION

Mail form and a copy of original sales receipt to: AmeriFlowTM Manufacturing and Distribution, 525 W. 21st St., Tempe, AZ 85283 U.S.A., 602-275-4188.

Or Fax form and a copy of original sales receipt to: 602-244-2505.

AmeriFlowTM Manufacturing and Distribution considers the safety of your personal information very important. AmeriFlowTM collects personal information when you register your product with us. This information is kept in our records and we do not share personal information with other nonaffiliated companies. We reserve the right to communicate with you via direct mail, email, or telephone pertaining to our products and services. We limit access to your personal information to those employees whose job requires them to communicate with you regarding our products and services. By registering your product the original purchaser will be entitled to the full benefits of AmeriFlowTM Water Systems's warranty.

KEEP FOR YOUR RECORDS

Model #:	Serial #:	
Date of Purchase:	Date of Install:	
Installed by:		
	WARRANTY REGISTRATION	
Original Purchaser:		
First Name:	Last Name:	
Address:	City	
State:	Zip Code:	
Country:	Phone #:	
Email:		
Date of Purchase:	Date of Install:	
Where Purchased:		

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Installed by:		
Model #·	Serial #·	

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