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Do not perform any operations on this product without reading or understanding this manual.

INTRODUCTION

You have purchased the finest residential Reverse Osmosis Water System available for your home. Your drinking water is going to be healthier and taste better from now on, and nothing makes us happier. When properly maintained this system will provide you with years of great-tasting, pure drinking water and trouble-free service.

Please make sure to thoroughly read the installation manual and become familiar with the tools needed before proceeding with the installation. Also, please make sure to inspect the package for any missing components or shipping damages.

If you find any issues or have questions please contact us at 1-800-992-8876 or visit our website at www.expresswater.com.

1. Important Notes

User must operate in strict accordance with the installation specification described in this manual, the system shall be installed only by professional personnel, and should be used in accordance with the instructions for use in the manual. Otherwise, Express Water does not assume any economic and legal liabilities for any property damage or personal injury arising from product damage or water leakage caused by failure to install and use this product according to the requirements of the manual.

• Make sure the actual voltage is in accordance with applicable voltage for the system.

• The system **must** be floor mounted and the product shall not be hung or placed on its side. • The applicable temperature for the system is 41-100°F. When the water temperature or surrounding temperature drops below 41°F, please turn off the water pipeline of the system (turn off the water feed supply valve as well) and drain all water in the system. The freeze of water pipeline or the whole system may result in malfunction, damage and possible injury to the housing or water pipeline.

 If power cable, plug or other parts are damaged, and the system cannot work properly, do not continue to use the system. Please contact support at (800) 992-8876 (Mon-Fri 10am-5pm PST) or support@expresswater.com immediately for assistance (also for system maintenance and filter cartridge replacement).

• For system maintenance and replacement of filter cartridges or other

parts of system, only replacement parts approved by Express Water should be used. The quality problems, performance degradation or property losses caused by using unauthorized parts or accessories are not within the scope of warranty.

• Regularly check the system and water pipe accessories for any leakage to avoid property damage caused by leakage.

- Regularly check the power supply and power cord for any loose wires or damage to avoid serious accidents caused by electric leakage.
- You **must not** disassemble or refit the system without authorization, which may cause failure or water leakage and property damage.
- Any fault caused by improper use will not be covered by the warranty.

SAFETY PRECAUTIONS

1.1.1 Warning

1) This system was designed for household / municipal water use, do not use untreated or unknown water source.

2) Do not install the system on the water supply pipeline with water pressure more than 60psi. If the inlet water pressure exceeds 60psi,

1.1.2 Cautions

1) Do not install the system in a place with direct sunlight or exposed to any harmful chemicals, or any place that may result in the system being damaged by falling or being hit.

Do not install the system near any heat source.

a pressure reducing valve must be installed (included with system).

3) Do not reverse the installation sequence of the filter cartridge of the system, so as not to affect the normal function of the system.

4) The connection of water inlet and outlet must be correct to avoid affecting the normal operation of system.

2) Clean the system with clean water. Do not spray water directly to clean the machine. Do not use steel wire, abrasive detergent or corrosive liquid (such as gasoline or acetone) to clean the system.

When cleaning, do not introduce other liquid into the filter cartridge to avoid damage to the filter system.

5) The system can only use the original power adapter. Do not use other devices to power the system. The power adapter is only suitable for 110V AC.

6) Do not pull with force, and do not plug in or pull the power adapter with wet hands, so as to avoid electric shock.

8) The system **must not** be installed upside down or on its side.

3) You **must** keep the outlet of the waste water pipe unobstructed, so as to avoid damage to the filter cartridge or internal components of the system.

When the waste water pipe is blocked, do not use the system (please shut off the power) to avoid the waste water from the system soaking the floor.

PRODUCT FUNCTION



2.1.2 Overall Dimensions - 18"L x 6.1"W x 15.8"H

2.2 Product Settings

Model No.	ROT600 / ROT600ALK
Power supply specifications	100~240V 50/60Hz
Feed water pressure	30-100 psi
Tap water temperature	41°F-100°F
Purified water output flow*	0.42 gpm
Total purified water volume**	Up to 1056 gallons (depending on actual tap water quality)
Tap water source	City / well water only
Tap water quality	<1000 ppm

*The purified water output flow is based on 77°F water temperature.

** Depending on actual tap water quality and usage, the total purified water volume will vary.

2.3 Filter Cartridge Specification

Water Treatment Process

Municipal tap water → Tier I SED+CAR filter cartridge → Tier II ROM / ALK filter cartridge → pure water

IMPORTANT: The replacement cycle of the filter cartridge will depend on local water conditions.

INSTALLATION

CAUTION. The water supply to the unit MUST be from the COLD WATER LINE. Using HOT WATER will severely damage your RO System.

3.1 Installation Instructions

3.1 Preparation before installation

1) Confirm the area of installation of system.

2) Check the packing list in the instruction manual and confirm whether the actual accessories are complete.

3) Prepare tools for installation.

Tools (not included)







Pipe



Thread Screwdriver seal tape

Adjustable wrench cutter

Flashlight Towels

3.2 Installation of three-way connector

NOTE! If your Cold Water Valve is too old or weak to connect to directly Option A you can connect at the top of the line where the faucet connects Option **B** (if applicable, some sinks do not have this connection point).

1. Locate the Cold Water Valve underneath the sink and turn it off completely. Next, open the cold water handle on your sink to release any pressure by expelling any existing water. Check to make sure the water has stopped flowing completely before proceeding.

DO NOT CONNECT TO HOT WATER LINE!

NOTE! On single-handle faucets the hot water may have to be turned off to prevent hot water crossover (only during your first installation).

If water still continues to come out of the faucet with the Cold Water Valve turned off, then the main water supply must be turned off as well.

2. As shown below, the Feed Water Adapter Valve can be used for 3/8" or 1/2" feed line plumbing.

Simply switch the Adapter Nut (see left image) from one side of the Adapter Valve to the other.





1/2" Connection

3/8" Connection

Next, use an adjustable wrench to secure the Adapter Valve either directly to the Cold Water Valve Option A or further up in the line before the faucet Option B (if applicable). Make sure your Adapter Valve is in the closed position when installing it.

NOTE! Do Not Use Teflon Tape! Use your wrench to tighten the connection, be careful not to over tighten.





Using the Feed Water Adapter Valve

During installation leave your Feed Water Adapter Valve in the "CLOSED" position until System Startup. The Feed Water Adapter Valve controls all water coming into your RO System. If for any reason you need to stop incoming water turn the Feed Water Adapter Valve to the "CLOSED" position. Always turn this valve off before replacing filters, if a leak is discovered, or when shutting down the system.

WARNING! INCOMING WATER PRESSURE SHOULD NOT EXCEED 60 PSI

INSTALLATION

3.3 Drain saddle

The Drain Saddle is used to connect the Drain Line to the drain pipe under the sink, to allow the system to flush contaminants down the drain.

The Drain Saddle is designed to fit around a standard 1¹/₂" OD (outer diameter) drain pipe. The Drain Saddle should always be installed above (before) the P-Trap and on a straight vertical or horizontal section of pipe.

To avoid clogging the drain line with debris do not install the Drain Saddle after the drain pipe meets a garbage disposal or dishwasher drain. Refer to the image below to see ideal Drain Saddle locations.

Please contact us if you need help locating a drain saddle placement.

1. Once you have found where your Drain Saddle will go on the Drain Pipe make a mark for the opening there with a marker or pencil.

2. Use your drill and an appropriate ¹/₄" (6.35mm) drill bit to drill a hole at your mark. Be careful to drill through one side of the pipe and stabilize your pipes while drilling to avoid damaging them.

3. Find the half of the Drain Clamp with a hole in its center. Then remove the backing from the Foam Gasket (the foam circle at the center of the Gasket is disposable). Make sure to align the Foam Gasket hole with the Drain Clamp hole and stick the adhesive side of the Gasket to the inner wall of the Drain Clamp half.

4. Take the half of the Drain Clamp without the Foam Gasket and insert a nut into the recess on each side.

5. Position both halves of the Drain Clamp on the drain pipe with the clamp's opening aligned over the drilled hole. The Foam Gasket will be between the drain clamp and the drilled hole. Push your 1/4" drill bit through both holes (the Drain Clamp hole and the hole in the Drain Pipe) and remove to verify that the clamp is properly aligned with the hole you drilled.

6. Secure the Drain Clamp halves together in place on the Drain Pipe. Screw the bolts through the Drain Clamp half with the Foam Gasket and into the half you installed the nuts into (Do not over tighten. Make sure there is equal space on both sides between the Drain Clamp halves).





3.4 Installation of machine

The fixed direction of system machine is selected according to the position of the whole machine, as shown below.



1) Take out filter cartridges

3.5 Installation of filter cartridge

Tear off the shrink film from the filter cartridge, unplug the protection foam and cover at the upper end of the SED+CAR filter cartridge and ROM / ALK filter cartridge respectively.

2) Install Filter Cartridge

Screw the filter cartridges into the system respectively in the directions shown in the image according to their positions in the system. Make sure the filters are inserted completely and that when locking the filters, they 'click' into place.

Installation Method:

Load the filter cartridge from the front side of the housing. Align \blacktriangle icon on top of cartridge handle with icon on front panel of housing, then insert and rotate the cartridge in 90° clockwise. When \bigstar icon on top of cartridge handle aligned with icon on front panel of housing, the cartridge installation is completed.



INSTALLATION

3.6 Tubing Installation

1) Tubing cutting

Cut tubing with proper length, and the incision should be flush, as shown here:

CAUTION

• The cuts on the tubing must be straight and smooth without any broken edges affecting the sealing.

• Make sure that the tubing is not deformed after being cut and inspect the O-shaped gasket for any damages so that no water leakage occurs.



Note: See 3.7 for faucet connection

()

3.7 Faucet installation

The RO Faucet may be installed on any flat surface. Check the underside of your install location for any interference by making sure that drilling a hole will not damage any pipes or wiring underneath the countertop or sink. Check to be sure there is enough room for the Threaded Faucet Stem.

NOTE! For drilling you must use an appropriate drill bit and drilling method for the material of your sink and counter top. Different drill bits are required for stainless steel, porcelain, granite, etc.

You may use an existing hole in your counter or sink or drill a new hole (if using an existing hole begin at step 2). Make sure the Base Plate is big enough to cover the hole you use.

Porcelain Sink

A proper porcelain 1/2" drill bit is strongly recommended to prevent chipping if you are drilling on a porcelain sink. Drill slowly to avoid chipping during the initial cutting of the porcelain.

Stainless Steel Sink

1. Use a proper $\frac{1}{2}$ " drill bit (depending on your sink / counter material) to make a hole for your RO Faucet.

2. Insert the Pre-Assembled Base Plate & Rubber Washer (see design) onto the Threaded Faucet Stem at the base of the RO Faucet. Then put the Threaded Faucet Stem through the newly drilled or pre-existing hole. Make sure the RO Faucet sits in the center of your new or existing hole.

3. Under the sink install the Rubber Washer and the Tension Hand Screw (see design) onto the Threaded Faucet Stem. Make sure they are installed all the way up the stem.

4. Attach the Union Connector to the Threaded Faucet Stem, and then insert the ¹/₄" White Tube into the Union Connector.

NOTE: Make sure all tubing and connections are secured properly before turning on the water supply to the system.

3.8 Illustration of the completed installation



Cautions:

1) After the installation is completed, check and be sure that no tubing or connections leak water during flushing process.

2) The drain water outlet tubing must be connected to the drain and secured properly. Do not use a water storage device to collect the drain water in case water spills due to the product's autonomous flush.



OPERATING INSTRUCTIONS

4. Operating Instructions

4.1 Use of the system for the first time

After the water supply has been opened, and the power is turned on for the first time, the system will start automatically flush for 5 minutes, then proceed to manually flush by turning on the faucet to run water for an additional 30 minutes until the outlet water is clean. The working indicator and water quality indicator will blink during the flush, and stay illuminated after the flush.

NOTE: When the system has been unused (faucet turned off) for 24 hours, the system will auto flush for 20 seconds.

CAUTION

During the flush, be sure to carefully check the connection of each part of the system by wiping the connectors with tissue and checking if the tissues get wet. Make sure all tubing is installed correctly and securely.

After the flush is completed, turn off the RO faucet and make sure the system is not leaking. This completes the start up process of the unit.

4.2 Routine Maintenance

1) If the system is not in use for a long time (more than one week), please turn on the purifier faucet first, turn off the water source, and finally disconnect the power supply. Please take out the filter cartridge and seal it in an air-tight bag or container, and store it in the refrigerator / room for fresh-keeping (do not put it in the freezer), so as to reduce bacteria breeding - keep away from direct sunlight. For re-use, it is required to flush water for 10 minutes before using the system, otherwise you need to replace with a new filter cartridge before using machine.

2) This machine has the reminder function of filter cartridge replacement: please replace the filter cartridge regularly according to the indicator light or reminding information of filter cartridge life.

4.3 Cautions

1) Only use authorized original filter cartridges for replacement.

2) The actual performance and service life of each filter cartridge depends on the local tap water quality and daily usage.

3) If the local water quality is lower or higher than the national guidelines, the actual life of the filter cartridge will be different from the recommended life.

4.4 Filter replacement

1) Turn off the RO faucet and make sure the machine is on standby.

2) Twist off the filter cartridge that needs to be replaced in a counterclockwise direction as image (see right).

3) Rotate the new filter cartridge into the housing in a clockwise direction.

4) Reset the filter life after replacement and follow section 4.8 for operation.



4.5 System display



1) Working indicator (indicator light above)

2) Filter life indicator (indicator light above, buttons below)

3) Water quality indicator (indicator light above)



Lit blue when taking water and light off when not taking water.

Blue (filter life is normal); violet (filter life soon expired / fault); Red (filter life expired / fault)

During normal water making, the indicator light shows: Blue (represents excellent water quality); violet (represents good water quality); Red (represents poor water quality / fault).

OPERATING INSTRUCTIONS

4.6 Flushing Functioning

Function	Logic Action	Working Indicator	Filter Life Indicators	Water Quality Indicator
1. Flushing for first use	1st: Automatically flush for 5 mins.	– Blinks in blue.	Light on according to current filter life.	Blinks in red.
	2nd: Turn on faucet to manually flush for 30 mins.			Blinks according to water quality.
2. Flushing after filter replacement	 SED+CAR: Automatically flush for 5mins. ROM/ALK: Automatically flush for 5mins, then turn on faucet to manually flush for accumulated 30mins. 	Blinks in blue.	Light on according to current filter life.	Automatically flush: blinks in red. Manually flush: blinks according to water quality.
3. Flushing after power-on	Automatically flush for 20s when power-on.	Blinks in blue	Light on according to current filter life.	Blinks according to water quality.
4. Flushing for prolonged use	Automatically flush for 20s when system cumulatively works for 2 hours.	Blinks in blue	Light on according to current filter life.	Blinks according to water quality.
5. Flushing for holiday mode	Automatically flush for 20s when system is off (faucet closed) continually for 24 hours.	Blinks in blue	Light on according to current filter life.	Blinks according to water quality.

4.7 Filter lifetime definition and indicator display

Filter Life	Remaining Life / Day	Remaining Capacity / Gallon	Indicator	Buzzer
Normal	> 15	> 40	Light on in blue	N/A
Expiring	≤ 15	≤ 40	Light on in violet	Buzzer beeps twice when dispensing water.
Expired	≤ 0	≤ 0	Light on in red	Buzzer keeps beeping when dispensing water.

1) Filter Lifetime: SED+CAR filter life: ~1,000 Gallons / 1 Year; ROM/ALK filter life: ~2,900 Gallons / 2-3 Years.

2) The indicators will notify you according to the using time or processing capacity of the filters, whichever comes first.

3) The Filter capacity and replacement time may vary according to actual water quality and usage.

4.8 Filter life resetting operation

1. Press and hold the filter reset button for 5 seconds until buzzer beeps once and filter life indicator lights up in blue, it completes the filter life reset. (Notes: filter life should be reset one by one).

- 2. After filter life is reset, the following filter flush will proceed:
- SED+CAR filter: Automatically flush for 5mins.
- ROM/ALK: Automatically flush for 5mins, then turn on faucet to manually flush for accumulated 30mins.

Notes:

When the SED+CAR filter and ROM/ALK filter are reset at the same time, system will automatically flush for 5mins, then turn on faucet to manually flush for accumulated 30mins.

TROUBLESHOOTING

5.1 Troubleshooting and solutions

ISSUES	CAUSES	SOLUTIONS
Water leak	Tubing is not inserted securely, or the tubing outer tip needs to be made a clear cut so it is smooth.	Check and re-install tubing
	3-way connector is not installed in place.	Re-install feed water adapter
No display	Power is not connected.	Check if there is electricity at the outlet using another electrical item.
	Booster pump stops working.	Refer to system issues and solutions below
The system automatically shuts down	The booster pump starts and stops frequently.	Refer to system issues and solutions below
	The water leak sensor has detected leaking water.	Refer to system issues and solutions below
The booster pump runs loud	Low inlet pressure or low inlet water flow.	 Make sure the cold water is turned on all the way to the system, unscrew the feed adapter to check inside the screen to make sure there is no blockage. Check the input tap water pressure meets the requirements of the system working pressure.
pump runs loud		
	The machine is being flushed (first time powering on, during operation, filter replacement, etc).	This is normal. The running sound will return to normal at the end of flushing
Low purified water flow	No tap water is entering the system.	 Make sure the cold water is turned on all the way to the system, unscrew the feed adapter to check inside the screen to make sure there is no blockage.
		 Check the input tap water pressure meets the requirements of the system working pressure.
	Low water flow at drinking faucet	Filter cartridge may need to be replaced. Contact EXPRESS WATER for assistance.

5.2 System issues and solutions

PROBLEM	POSSIBLE REASON	SOLUTIONS
Overtime protection: Working indicator and water quality indicator light off, filter indicators blink in red.	System continual work for 30mins, buzzer alarms (sound 1s and stop 1s, repeat). Continual to work 3mins, system stop working.	Power-up again, system should resume working.
Frequent start and stop protection: Working indicator and water quality indicator light off, filter indicators blink in violet.	Detect system frequently start and stop (high tension switch open and close in 60s) for continual 20min, buzzer beeps for 5 times and system will shut down automatically.	Power-up again, system should resume working.
Leakage within the system: Working indicator lights off, filter indicators and water quality indicator blink in red.	Continual detect leakage for 3s, system will alarm with buzzer beeps (sound 3 times and stop 4s, repeat, total last for 3mins)	System would only re-start working automatically when leakage is fixed.
Low temperature protection: Working indicator and ROM / ALK filter indicator light off, SED+CAR filter indicator and water quality indicator blink in red.	When NTC detects inlet or outlet water temperature \leq 37°F, buzzer beeps for 5 times.	Power-up again, system should resume working.



1 YEAR LIMITED WARRANTY

As manufacturer, we do not know the characteristics of your water supply or the purpose for which you are purchasing a drinking water system. Please understand that the quality of water supplies may vary seasonally or over a period of time, and that your water usage rate may vary as well. Water characteristics can also change considerably if your drinking water system is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product on a non-potable water source. OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPLACEMENT OF THE FAILED PARTS OF THE DRINKING WATER SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL, OR OTHER DAMAGES, WHETHER FROM CORROSION OR OTHER CAUSES.

We Cover

This warranty covers any defects in the parts or manufacturing of your Express Water System. We will give you new replacement parts in exchange for any defective parts.

What to Do

Give us a call at 1-800-992-8876 or send an email to support@expresswater.com and describe the problem to our support. Be sure to have a copy of your purchase confirmation email or receipt. Our support will verify that the product and problem are under warranty and help you arrange to send your defective part back to Express Water with your receipt and contact information (name, address, phone number, email address). Support will help arrange sending of the defective part, the delivery of your replacement part, as well as guiding you through the installation.

Time Covered

This warranty is effective for 1 full year from the date of original purchase.

Not Covered

This warranty does not cover labor for removal or installation, accumulation of dirt or grime (you are responsible for your own cleaning), systems with the serial number removed or altered, damage from improper storage (high or low temperature, sun damage, etc), damage from a system not installed as instructions directed, anyone other than original purchaser, damage from system abuse or unintended operation of system, accident, fire, flood, freezing, or any acts of God, improper water source, modification, negligence, commercial use of the system, Filters, incidental damages from system failure, systems used with parts not provided by Express Water (including tanks, filters, faucets, pumps, diverter valves), or cosmetic damages.

Your State

Some states have further regulation on damages and warranty coverage. You may have other rights depending on your state.

For warranty questions, service, or help give us a call: Monday - Friday 10 am to 5 pm PST: 1-800-992-8876

support@expresswater.com • www.expresswater.com

Express Water Inc. 13030 Raymer St, North Hollywood, CA 91605



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EXPRESS WATER INC. 13030 Raymer St, North Hollywood, CA 91605