Warning
Please read carefully before proceeding with installation. Failure to follow attached instructions or operating parameters may lead to the product’s failure.

******************************************************************************

Save manual for future reference.

Model ZRO-4

ZERO WASTE REVERSE OSMOSIS SYSTEM

System Tested and certified by NSF International against NSF/ANSI Standard 58 for the reduction of the claims specified on the performance data sheet.

System Tested and certified by WQA against NSF/ANSI Standard 58 for the reduction of the claims specified on the performance data sheet.
Thank you for your purchase of a state of the art Watts Premier Zero Waste Reverse Osmosis (RO) water treatment system. Water quality concerns are quickly becoming more of a focus for the public. Lately you may have heard about contaminants in the drinking water, such as arsenic, perchlorate, chromium, cryptosporidium or Giardia. There may also be some local water issues in your area such as high levels of lead, radium and copper. This Watts Premier water treatment system has been designed and tested to provide you with high quality water for years to come. The following is a brief overview of the system.

**Your Zero Waste Reverse Osmosis System:**
Osmosis is the process of water passing through a semi permeable membrane in order to balance the concentration of contaminants on each side of the membrane. A semi permeable membrane is a barrier that will pass some particles like clean water, but not other particles like arsenic and lead.

Reverse osmosis uses a semi permeable membrane; however, by applying pressure across the membrane, it concentrates contaminants (like a strainer) on one side of the membrane, producing crystal clear water on the other. This is why RO systems produce both clean drinking water and waste water that is flushed from the system. In an effort to provide high quality drinking water while meeting the water supply challenges across the country, Watts Premier has patented this Zero Waste RO system. This Zero Waste RO is 100% effective in providing high quality reverse osmosis drinking water while not wasting any water down the drain.

This Zero Waste reverse osmosis system also utilizes carbon block filtration technology, and can therefore provide a higher quality drinking water than carbon filtration systems alone.

Your system is a four stage RO which is based upon separate treatment segments within the one complete water filtration system. These stages are as follows:

**Stage 1 – Sediment filter, recommended change 6 months.**
The first stage of your RO system is a five micron sediment filter that traps sediment and other particulate matter like dirt, silt and rust which affect the taste and appearance of your water.

**Stage 2 – Carbon filters, recommended change 6 months.**
The second stage contains a 5 micron carbon block filter. This helps ensure that chlorine and other materials that cause bad taste and odor are greatly reduced.

**Stage 3- Membrane, recommended change 2-5 years.**
Stage three is the heart of the reverse osmosis system, the RO membrane. This semi permeable membrane will effectively take out TDS, Sodium and heavy metals such as arsenic, copper, and lead, as well as Cysts, such as Giardia and cryptosporidium. Because the process of making this high quality drinking water takes time, your RO water treatment system is equipped with a storage tank.

**Stage 4- Carbon inline filter, recommend change 6 - 12 months.**
The final stage is an inline granular activated carbon (GAC) filter. This filter is used after the water storage tank, and is used as a final polishing filter.

**System Maintenance**
Just because you can not taste it, does not mean that it is not there. Contaminants such as lead, chromium and arsenic (to name a few) are undetectable to the taste. Additionally, over time if you do not replace the filter elements, other bad tastes and odors will be apparent in your drinking water.

This is why it is important to change out your filters at the recommended intervals as indicated in this system manual. When replacing the filter elements, pay special attention to any cleaning instructions. Should you have any further questions please refer to our website at [www.wattspremier.com](http://www.wattspremier.com) or call our customer service dept. at 1-800-752-5582.
Thank you for your purchase of a Watts Zero Waste Reverse Osmosis system. With proper installation and maintenance, this system will provide you with high quality water for years to come. All of Watts water enhancement products are rigorously tested by independent laboratories for safety and reliability. If you have any questions or concerns, please contact our customer service department at 1-800-752-5582 (outside USA 480-675-7995).

**Before installation, please take a moment to fill out the warranty card on page 21-22.**

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**Operational Parameters**

*Installation must comply with State and local plumbing regulations. This system is to be installed to treat cold water only.*

<table>
<thead>
<tr>
<th>Operating Temperatures:</th>
<th>Maximum 100°F (37.8°C)</th>
<th>Minimum 40°F (4.4°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Pressure:</td>
<td>Maximum 85 psi (6.0 kg/cm²)</td>
<td>Minimum 40 psi (2.80 kg/cm²)</td>
</tr>
<tr>
<td>pH Parameters:</td>
<td>Maximum 11</td>
<td>Minimum 2</td>
</tr>
<tr>
<td>Iron:</td>
<td>Maximum 0.2 ppm</td>
<td></td>
</tr>
<tr>
<td>TDS (Total Dissolved Solids)</td>
<td>&lt; 1800 ppm</td>
<td></td>
</tr>
<tr>
<td>Turbidity</td>
<td>&lt; 5 NTU</td>
<td></td>
</tr>
</tbody>
</table>

**Hardness:** Recommended hardness not to exceed 10 grains per gallon, or 170ppm. System will operate with hardness over 10 grains but the membrane life may be shortened. Addition of a water softener may lengthen the membrane life.

**Water Pressure:** The operating water pressure in your home should be tested over a 24 hour period to attain the maximum pressure. If the incoming water pressure is above 85 psi a pressure regulator is recommended and if over 100 psi then a pressure regulator is required.

**Copper Tubing:** Reverse Osmosis water should not be run through copper tubing as the purity of the water will leach copper causing an objectional taste in water and pin holes may form in the tubing. Watts Premier supplies speciality filters (part number 107008) that can be used if copper tubing follows the Reverse Osmosis unit. Be sure to follow any state or local regulations during installation.

*Note: RO unit must be installed a minimum of 25 Pipe feet from water heater*

---

**System includes:**
- RO module, 24 volt Pump, 3 gal Storage tank, Long reach faucet, Manual, Warranty Card, Parts Bag (2 Water line fitting valves, 2 Washers, Transformer, 2 Mounting screws, 1 Teflon tape roll, 2 Brass inserts, 2 Plastic sleeves, 1 Ball valve)

*If any of the items are missing please contact Watts at 1-800-752-5582 prior to installing*

**Tools recommended for installation**
- 7/16” Drill bit for faucet
- Channel lock pliers
- Phillips Screw Driver
- 1/2” - 5/8” Open End Wrench
- Adjustable Wrench
- Sharp knife
- Electric Drill
Drill a Hole for the Faucet in a Porcelain Sink

**Note:** Most sinks are pre drilled with 1 ½” or 1 ¼” diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)

Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Premier accepts no responsibility for damage resulting from the installation of faucet.

**Step 1** Determine desired location for the RO faucet on your sink and place a piece of masking tape on over where the hole is to be drilled. Mark the center of the hole on the tape.

**Step 2** Using a variable speed drill set on the slowest speed, drill a ⅛” pilot hole through both porcelain and metal casing of sink at the marked center of the desired location. Use lubricating oil or liquid soap to keep the drill bit cool (If drill bit gets hot it may cause the porcelain to crack or chip).

**Step 3** Using a 1/2” hole saw, proceed to drill the large hole. Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

**Step 4** Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

Punch a Hole for the Faucet in a Stainless Steel Sink

**Note:** If mounting faucet to a Stainless Steel Sink you will need a 1/2” minimum hole punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.

**Step 5** Drill a ¼” pilot hole. Use a ⅛” Hole Punch and an adjustable wrench to punch the hole in the sink.

The faucet can now be installed.

***IMPORTANT NOTICE***

Not recommended for use on homes equipped with tankless water heaters. Contact Watts Premier for specific details regarding this unit and tankless water heaters.

System was tested in a laboratory setting utilizing a hot water heater of 40 gallons set at 120º F. Performance may vary if your heater is smaller than 40 gallons or set above 120º F, contact the manufacturer for additional details.

System should not be used on homes equipped with a backflow prevention on the hot water heater. This device is 100% efficient, as no water is lost to drain in the production of the RO water.

System should not be used on homes equipped with a backflow prevention on the hot water heater.

Note:
- Most sinks are pre drilled with 1 ½” or 1 ¼” diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)
- Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Premier accepts no responsibility for damage resulting from the installation of faucet.
- If mounting faucet to a Stainless Steel Sink you will need a 1/2” minimum hole punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.
- The faucet can now be installed.

If you are already using it for a sprayer or soap dispenser, see step 1.

Premier accepts no responsibility for damage resulting from the installation of faucet.

If drill bit gets hot it may cause the porcelain to crack or chip.

Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

Drill a Hole for the Faucet in a Porcelain Sink

Drill a ¼” pilot hole. Use a ⅛” Hole Punch and an adjustable wrench to punch the hole in the sink.

Not recommended for use on homes equipped with tankless water heaters. Contact Watts Premier for specific details regarding this unit and tankless water heaters.

System was tested in a laboratory setting utilizing a hot water heater of 40 gallons set at 120º F. Performance may vary if your heater is smaller than 40 gallons or set above 120º F, contact the manufacturer for additional details.

System should not be used on homes equipped with a backflow prevention on the hot water heater. This device is 100% efficient, as no water is lost to drain in the production of the RO water.

Note:
- Most sinks are pre drilled with 1 ½” or 1 ¼” diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)
- Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Premier accepts no responsibility for damage resulting from the installation of faucet.
- If drill bit gets hot it may cause the porcelain to crack or chip.
- Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.
- Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

Punch a Hole for the Faucet in a Stainless Steel Sink

Note:
- If mounting faucet to a Stainless Steel Sink you will need a 1/2” minimum hole punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.
- The faucet can now be installed.

Not recommended for use on homes equipped with tankless water heaters. Contact Watts Premier for specific details regarding this unit and tankless water heaters.

System was tested in a laboratory setting utilizing a hot water heater of 40 gallons set at 120º F. Performance may vary if your heater is smaller than 40 gallons or set above 120º F, contact the manufacturer for additional details.

System should not be used on homes equipped with a backflow prevention on the hot water heater. This device is 100% efficient, as no water is lost to drain in the production of the RO water.

Note:
- Most sinks are pre drilled with 1 ½” or 1 ¼” diameter hole that you can use for your RO faucet. (If you are already using it for a sprayer or soap dispenser, see step 1)
- Porcelain sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Premier accepts no responsibility for damage resulting from the installation of faucet.
- If drill bit gets hot it may cause the porcelain to crack or chip.
- Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.
- Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling and remove all sharp edges.

Punch a Hole for the Faucet in a Stainless Steel Sink

Note: If mounting faucet to a Stainless Steel Sink you will need a 1/2” minimum hole punch. The faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.

Step 5 Drill a ¼” pilot hole. Use a ⅛” Hole Punch and an adjustable wrench to punch the hole in the sink.

The faucet can now be installed.
Installation of Faucet

Step 6  Place the escutcheon chrome plate and the black rubber washer on the faucet shank. (Parts found in faucet parts bag).

Step 7  Insert the faucet shank through the hole in sink and let it rest on the sink top.

Step 8  From the underside of the sink, slide on the locating washer, lock washer and brass nut onto the shank. Check orientation of faucet then tighten brass nut securely.

Connect Blue Tube from the RO to the Faucet

Step 9  Locate the blue 1/4” tube attached to the RO module labeled “Faucet”. Remove a brass nut, plastic sleeve and brass insert from the parts bag. To assemble, place the brass nut on the blue tube first, then the sleeve (small tapered end of sleeve must point to the end of tube) and then push the brass insert all the way into the end of the tube. (See Picture)

Step 10 Insert the blue tube into the end of the faucet shank and use a wrench to tighten the brass nut securely.
Adapt-a-Valve Installation

*Water supply line to the system must be from the cold water supply line only. Hot water connection is used for rinse water return and must be connected for system to function correctly.*

**Configuration for 3/8” (With Brass Fittings)**

* Insert White Washer

**Configuration for 1/2” (Without Brass Fittings)**

Step 11  Turn off the cold and hot water supply to the faucet by turning the angle stop valve completely off.

Step 12  Attach the Adapt-a-Valves as illustrated in the three photos above, choosing the configuration that fits your plumbing.

**WARNING:** *Do not use teflon tape with the Watts Adapt-a-Valve.*

Connect the Green and Black Tubing

Step 13  Locate the 1/4” green tubing attached to the RO system. Insert the open end of the green 1/4” tube into the open 1/4” quick connect fitting on the **COLD** water feed adapta-a-valve making sure the tube is pushed in all the way to the tube stop. Repeat the procedure to connect black tubing from the RO module to the hot water, return adapt-a-valve.

Mounting the RO Module

Step 14  Determine the best location for the RO Module to be mounted and allow for future system maintenance. Use a Phillips screwdriver and secure the screws 5 3/4” apart and 16” from the bottom of the cabinet.

Tank Ball Valve Installation - Part#: 134018

Step 15  Teflon tape must be applied in a clockwise direction. Wrap (7 to 12 turns) around the male pipe threads (MPT) on the stainless steel fitting on top of the tank.

Step 16  Thread the quick connect ball valve (supplied in the parts bag) onto the stainless steel connector on the tank.

**Note:** Do not over-tighten plastic connections.
Blue Tube Connection (From The RO Module To TANK)

Step 17  Position tank in desired location. Stand it upright or lay it on its side (using the black plastic stand). Measure the blue tube (marked “TANK”) from the RO module to the tank and cut it to length leaving a straight, square edge. Insert the tube into the quick connect fitting on the tank ball valve. Make sure the tube is pushed in all the way to the tube stop.

Note: Set the blue ball valve knob in-line with the blue tube, this is the “open” position.

Start up Instructions

Warning: To prevent the possibility of electrical shock, clean up any water on cabinet floor and dry all water from outside of RO unit.

Step 1  Turn on the incoming hot and cold water angle stop valves. Turn on the water adapt-a-valves. Check the system for leaks and tighten fittings as necessary.

Note: Check daily over the next week to ensure no leaks are present.

Step 2  Plug the (24 volt) transformer power cord connector into the RO system wire harness connector (labeled transformer.)

Step 3  Plug the transformer into the electrical outlet under the sink.

Step 4  Ensure ball valve on tank is open.

Step 5  Open the RO faucet and leave it open until water begins to drip. Then close the faucet. The tank will take approximately 4 hours to fill.

Note: If no water comes out of the RO faucet after a few minutes check the power outlet. It is possible that the power outlet you used for the RO unit is controlled by the garbage disposal switch. To test - Unplug the garbage disposal and flip the garbage disposal switch to “on”. If the RO pump turns on and water starts to drip out of the RO faucet you will need to connect the system to a different power outlet socket.

Note: Water may be cloudy or milky due to air in the system and carbon particles flushing out of the final polishing filter. This condition will resolve itself after flushing a couple of tanks of water.

Step 6  After the Tank has filled, open the RO Faucet to flush the tank completely. You will know that the tank is empty when the flow rate from the RO faucet is down to a trickle. Repeat this step two more times. The fourth tank can be used for drinking. This process should take approximately 24 hours to complete.

This flushing procedure is only necessary after the initial installation and after replacing the RO membrane.
6 Month System Maintenance - Filter Kit #560038

*Order filters by calling 1-800-752-5582 or buy online at www.wattspremier.com.

Items needed:

- √ Stage 1 - Sediment Filter (part #: 104017)
- √ Stage 2 - Carbon Block Filter (part #: 101009-White End Caps)

Note: The filter wrench pictured (Part # 164003) may be purchased from Watts Premier to aid with twisting off filter housings but is not required.

Step 1  Close the ball valve on the RO storage tank and open the RO Faucet.

Step 2  Turn off the incoming cold water supply to the RO at the adapt-a-valve and unplug the power transformer from the electrical outlet.

Step 4  For more leverage you may leave the RO module attached to wall of cabinet. If you are unable to access the module while it is mounted, remove it prior to changing filters. Starting with the closest housing (Stage 1), remove it by turning it clockwise (left), empty water, then discard filter and repeat for the 2nd housing (Stage 2).

Step 5  Clean the filter housings (bowls) with a mild soap solution and rinse with water. Check O-rings and lubricate with water soluble lubricant. KY Jelly®, or other water based lubricants may be used. Petroleum based lubricants (such as Vaseline®) must not be used.

Caution: Before re-installing the filter bowls back on to the system, check O-rings to make sure they are still in place. *

Step 6  Insert a new sediment filter (cloth like appearance) into the 1st filter housing which is the one on the water inlet side (green tubing from the adapt-a-valve) of the RO system and re-install housing.

Step 7  Insert the new Carbon Block filter (White end caps & plastic netting) into the second filter bowl and re-install housing.

Warning: To prevent the possibility of electrical shock, clean up any water on cabinet floor and dry all water from outside of RO unit.

Step 8  Plug the power transformer back into the electric outlet and turn cold water supply on to the unit at the adapt-a-valve.

Step 9  Close the RO faucet and open the ball valve on the RO storage tank. Your system is ready for use.
Annual Maintenance - Filter Kit #560032

Items needed:
√ Stage 1 - Sediment Filter (part #: 104017)
√ Stage 2 - Carbon Block Filter (part #: 101009-White end caps)
√ Stage 4 - 10” Final Polishing filter (part # 560010)
√ 1/2 Cup of hydrogen peroxide or common household bleach - not included in filter kit.

Note: Sanitizing of unit is recommended.

Step 1  Perform steps 1 through 5 in the Six Month System Maintenance (Page 9).

Note: If not sanitizing the system skip to step 8.

Step 2  Remove the RO membrane from its housing and rest in a clean sanitary place. (Refer to “Membrane Replacement” section on page 11 for directions on removing the membrane). Replace cap onto empty membrane housing and re-connect green tubing.

Step 3  Leaving the filters out, replace stage 2 empty filter housing (hand tight) onto unit. Measure & pour either 1/2 cup of hydrogen peroxide or common household bleach into the 1st filter housing (Stage 1) and hand tighten onto unit. Ball valve on RO tank should be open.

Step 4  With the RO faucet in the closed position turn on the incoming water supply to the system by turning the adapt-a-valve counter clockwise. Plug in the power transformer back into the electrical outlet. Wait 1 minute for the unit to pressurize. Turn on the RO faucet and let the water run for 30 seconds. Turn off the RO faucet and let the unit rest for 2 minutes. Finally, open the RO faucet and let the water run for 5 more minutes.

Step 5  Unplug the Power Transformer. Turn off the incoming water supply to the system by turning the adapt-a-valve clockwise until it stops. Keep the RO faucet open until the storage tank is completely drained.

Step 6  Open the membrane housing and re-install the RO membrane while making sure not to kink the O-rings. (Refer to “Membrane Replacement” section on page 11 for directions on installing the membrane). Tighten the cap back on the housing and reconnect green tubing.

Step 7  Remove filter housings Stage 1 and 2 and empty of water.

Caution: Before re-installing the filter bowls back on to the system, check O-rings to make sure they are still in place and lubricate with water soluble lubricant.

Step 8  Insert the new sediment filter (cloth like appearance) into the 1st filter housing which is the one on the water inlet side (green tubing from the adapt-a-valve) of the RO system and re-install housing.

Step 9  Insert the new Carbon Block filter (White End Caps) into the 2nd housing and re-install housing.

Step 10  Remove the final filter from the two clips. Remove the white nuts from both ends of the filter. Remove the connectors from both ends (keep and reuse). Discard the old final filter and replace with new filter reusing the connectors.

Note: Flow arrow on final filter must be pointing in the direction of water flow to the RO faucet.

Tip: This is a good time to check the air pressure in your storage tank. For instructions please see page 12.

Step 11  Follow Start Up procedure on page 8. You will need to flush a half a gallon of water before using the RO water.
Your reverse osmosis system contains replaceable treatment components that are critical for effective contaminant reduction. Periodic inspection and following proper system maintenance is critical for continued performance.

**Membrane Maintenance**

RO Membranes have a life expectancy between 2 and 5 years, depending on the incoming water conditions and the amount the RO system is used. This reverse osmosis membrane is critical for effective reduction of total dissolved solids (TDS). The product water should be tested periodically to verify that the system is performing satisfactorily. Normally, a membrane would be replaced during a semiannual or annual filter change. However, if at any time you notice a reduction in water production or an unpleasant taste in the reverse osmosis water, it could be time to replace the membrane. Watts Premier recommends replacing the membrane when TDS reduction falls below 75%.

A **water sample may be sent to Watts Premier for a free diagnosis of your membrane performance.** To send a water sample, use two (2) clean containers and fill ½ cup of tap water in one container and ½ cup of reverse osmosis water in 2nd container. Clearly label each sample. Send the samples to the address listed on the cover of this manual attention “Water Samples”. Watts Premier will test the water and mail or call you with the results.

**Step 1**  
Turn off the incoming cold water supply to the RO at the adapt-a-valves and unplug the power transformer.

**Step 2**  
Open the RO Faucet and allow water to drain from the tank until it is completely empty.

**Removing the membrane:**

**Step 1**  
Use a 5/8" wrench to remove the Green Tube fitting on the left side of the horizontal membrane housing (end with one elbow).

**Step 2**  
Remove the cap from the membrane housing by turning it counter clockwise to loosen.

**Note:**  
* A double sided wrench may be purchased from Premier to aid with loosening the cap / filter housings. (Part # 164003)

**Step 3**  
Remove membrane housing from the holding clips. Using a pair of pliers, grip the PVC tube of the RO membrane and pull firmly on the membrane to remove from the housing and discard.

**Installing the membrane:**

**Step 4**  
Lubricate the O-rings on the new membrane with a water soluble lubricant such as KY Jelly ®. Insert the end with the two black O-rings first into the housing.

**Step 5**  
Once membrane has been inserted into the housing you must take your thumbs and give a firm push to properly seat the membrane. Replace membrane housing cap and tighten.

**Step 6**  
After replacing membrane housing into clips, attach the green tube to the elbow on cap using 5/8" wrench.

**Step 7**  
Follow the Start Up Instructions on page 8.
**Check Air Pressure in the Tank**

*Important: Check air pressure only when tank is empty of water!*

Check air pressure in the storage tank when you notice a decrease in available water from the RO system. Air can be added with a bicycle pump using the schrader valve that is located on the lower side of the tank behind a blue plastic cap.

**Step 1**
Turn off the incoming cold water supply to the RO at the adapt-a-valve clockwise until it stops. (Follow the green tube away from the RO system to find the adapt-a-valve.)

**Step 2**
Open the RO Faucet and allow water to drain from the tank until it is completely empty.

**Tip:** When water from the RO faucet slows to a trickle, with the faucet still in the open position, you may add air to the tank to purge any left over water, this will ensure that the tank is completely empty.

**Step 3**
Once all water in the tank is purged, check air pressure using an air pressure gauge, it should read between 5 - 7 PSI. (Digital air pressure gauge is recommended)

### Trouble shooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low/slow production</td>
<td>Excessive air pressure in tank</td>
<td>Relieve pressure at schrader valve on tank (set to 7 psi with the tank empty)</td>
</tr>
<tr>
<td></td>
<td>Pump not operating</td>
<td>Wiring connection broken (plug 110 AC wall plug back in at wall and/or reconnect the 24 VAC wire harness connectors)</td>
</tr>
<tr>
<td></td>
<td>Fouled membrane</td>
<td>Replace membrane</td>
</tr>
<tr>
<td></td>
<td>Plugged pre-filters</td>
<td>Replace filters</td>
</tr>
<tr>
<td></td>
<td>Crimped tubing</td>
<td>Check tubes to make sure they are not kinked</td>
</tr>
<tr>
<td></td>
<td>Angle stop or water line valve</td>
<td>Ensure valves are opened by turning valve handle counter clockwise until it stops</td>
</tr>
<tr>
<td>Milky colored water</td>
<td>Air in the system</td>
<td>Air in the system is a normal occurrence with initial start up of the RO system. This milky look will disappear during normal use within 1-2 weeks. If condition reoccurs after filter changes, drain tank 1 to 2 times.</td>
</tr>
<tr>
<td>Faucet Dripping</td>
<td>Needs adjustment</td>
<td>see page 12</td>
</tr>
<tr>
<td>Pump short cycles</td>
<td>Ball valve on tank closed</td>
<td>Open the ball valve on the top of the tank</td>
</tr>
<tr>
<td></td>
<td>Blue tube blocked between the tank and RO system</td>
<td>Remove kinked/damaged section and replace if necessary</td>
</tr>
<tr>
<td></td>
<td>Faulty pressure switch</td>
<td>Call for technical support</td>
</tr>
<tr>
<td>Bowl leaks at the top after changing the filters</td>
<td>Damaged/Dry O-ring</td>
<td>Lubricate with water soluble lubricant or replace O-ring as necessary (Do not use Vaseline or other petroleum based lubricants)</td>
</tr>
<tr>
<td>Pump constantly running</td>
<td>Electrical fault</td>
<td>Call for technical support</td>
</tr>
<tr>
<td>Plugged pre-filters</td>
<td>Faucet left on</td>
<td>Close faucet and let tank fill for 2 to 3 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Replace filters</td>
</tr>
</tbody>
</table>
Adjust Faucet

If the faucet has developed a drip it can be corrected by following the steps outlined below.

Step 1  Remove faucet Spout first. Position both thumbs on the back edge of the lever and push forward.

Step 2  Lever will slide forward and completely off of the faucet base.

Step 3  Small brass tee can be turned 1/2 turn, counterclockwise, to adjust the tension on the black lever. This adjustment may be necessary to stop slow drips from tip of faucet. You may need to repeat process until the faucet does not drip. Brass tee must always end up facing across body of faucet in order to slide black lever on.
RECOMMENDED REPLACEMENT PARTS AND CHANGE INTERVALS:
Depending on incoming feed water conditions replacement time frame may vary.

<table>
<thead>
<tr>
<th>Change Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 months</td>
<td>Sediment Pre-filter (104017); Carbon Pre-filters (101009)</td>
</tr>
<tr>
<td>12 months</td>
<td>Final Carbon filter (100017)</td>
</tr>
<tr>
<td>3 to 5 years</td>
<td>R.O. Membrane (110009)</td>
</tr>
</tbody>
</table>

This system has been tested according to NSF/ANSI 58 for reduction of the substances 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. This system has been tested for the treatment of water containing pentavalent arsenic (also known as As (V), As (+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of the installation manual for further information.

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>334.615 ug/L</td>
<td>0.0385 ug/L</td>
<td>98.4%</td>
<td>50psi</td>
<td>19 ug/L</td>
<td>0.30±10%</td>
<td>0.010</td>
<td>0.10±10%</td>
</tr>
<tr>
<td>10.2 mg/L</td>
<td>0.207 mg/L</td>
<td>97.9%</td>
<td>7.24</td>
<td>50psi</td>
<td>0.3 mg/L</td>
<td>10.0±10%</td>
<td>0.3±10%</td>
</tr>
<tr>
<td>0.036 mg/L</td>
<td>0.0005 mg/L</td>
<td>98.6%</td>
<td>7.49</td>
<td>50psi</td>
<td>0.0007</td>
<td>0.3±10%</td>
<td>0.0005</td>
</tr>
<tr>
<td>0.15 mg/L</td>
<td>0.013 mg/L</td>
<td>91.3%</td>
<td>7.24</td>
<td>50psi</td>
<td>0.03</td>
<td>0.3±10%</td>
<td>0.1</td>
</tr>
<tr>
<td>0.17 mg/L</td>
<td>0.01 mg/L</td>
<td>94.1%</td>
<td>7.24</td>
<td>50psi</td>
<td>0.01</td>
<td>0.3±10%</td>
<td>0.1</td>
</tr>
<tr>
<td>3.1 mg/L</td>
<td>0.03 mg/L</td>
<td>99.0%</td>
<td>7.64</td>
<td>50psi</td>
<td>0.04</td>
<td>3.0±10%</td>
<td>1.3</td>
</tr>
<tr>
<td>222.077/µml</td>
<td>10/µl</td>
<td>99.99%</td>
<td>58</td>
<td>minimum 50,000/µL</td>
<td>50,000/µL</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>8.0 mg/L</td>
<td>0.5 mg/L</td>
<td>93.9%</td>
<td>7.49</td>
<td>50psi</td>
<td>0.7</td>
<td>8.2±10%</td>
<td>1.5</td>
</tr>
<tr>
<td>0.15 mg/L</td>
<td>0.002 mg/L</td>
<td>98.6%</td>
<td>7.49</td>
<td>50psi</td>
<td>0.003</td>
<td>0.15±10%</td>
<td>0.010</td>
</tr>
<tr>
<td>0.10 mg/L</td>
<td>0.003 mg/L</td>
<td>96.5%</td>
<td>7.39</td>
<td>50psi</td>
<td>0.005</td>
<td>0.10±10%</td>
<td>0.006</td>
</tr>
<tr>
<td>25 pCi/L</td>
<td>5 pCi/L</td>
<td>80.0%</td>
<td>7.24</td>
<td>50psi</td>
<td>5 pCi/L</td>
<td>25±5 pCi/L</td>
<td>5 pCi/L</td>
</tr>
<tr>
<td>0.10</td>
<td>0.008</td>
<td>92.0%</td>
<td>50psi</td>
<td>0.011</td>
<td>0.11±10%</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>752</td>
<td>27</td>
<td>96.4%</td>
<td>7.84</td>
<td>50psi</td>
<td>34 mg/L</td>
<td>750±40 mg/L</td>
<td>187</td>
</tr>
<tr>
<td>10.2 mg/L</td>
<td>0.26 mg/L</td>
<td>97.5%</td>
<td>0.83</td>
<td>11±1 NTU</td>
<td>0.5 NTU</td>
<td>0.5 NTU</td>
<td>0.5 NTU</td>
</tr>
</tbody>
</table>

Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage. 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. There is an average of 4 gallons of reject water for every 1 gallon of product water produced. Testing performed under standard laboratory conditions, actual performance may vary. Refer to owners manual for further maintenance requirements and warranty information.

Phone: (480) 675-7995 Fax: (623) 866-5666 Email: wpmail@watts.com
Arsenic Fact Sheet

Arsenic (As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste or odor. It must be measured by an arsenic test kit or lab test. Public water utilities must have their water tested for arsenic. You can obtain the results from your water utility contained with in your consumer confidence report. If you have your own well, you will need to have the water evaluated. The local health department or the state environmental health agency can provide a list of test kits or certified labs.

There are two forms of arsenic: pentavalent arsenic (also called As (V), As (+5)) and trivalent arsenic (also called As (III), As (+3)). In non chlorinated well water, arsenic may be pentavalent, trivalent, or a combination of both.

RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

This Watts Premier reverse osmosis system is designed to remove pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. Under laboratory standard testing conditions, this system reduced 0.30 mg/L (ppm) pentavalent arsenic to under 0.010 mg/L (ppm) (the USEPA standard for drinking water). Actual performance of the system may vary depending on specific water quality conditions at the consumer’s installation.

The RO component of this Watts Premier reverse osmosis system must be maintained in order to ensure proper contaminant removal from your water. As detailed out on Page 2 of this manual, prefilters should be replaced every six months, the post filter once a year, and the RO element with in two to five years. Specific component identification and ordering information can be found in the installation/operation manual maintenance section, by phone at 1-800-752-5582 or on-line www.wattspremier.com.

California Proposition 65 Warning
WARNING: this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to the consumer). For more information: www.wattsind.com/prop65.
Other Products from Watts Premier

Watts Premier has other fine water filtration products and accessories to enhance your water and to compliment your existing RO System. Listed on the next several pages are only a few of the items we offer. Visit our web site at www.wattspremier.com or call our Customer Service Representatives at 1-800-752-5582 (inside USA) 1-480-675-7995 (outside USA) for more products.

Watts Premier offers a filter change kit which includes all replacement filters needed. Call 1-800-752-5582 or buy on-line at www.wattspremier.com.

Top Mount Faucets by Watts Premier
These attractively designed faucets feature a long reach spout to compliment all styles of kitchen decor. The unique top mount design allows for easy above counter installation. The Monitored version of this faucet has an LED light that turns red to notify you for filter replacement.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>116091</td>
<td>Chrome (Non-Monitored)</td>
<td>$47.95 each</td>
</tr>
<tr>
<td>116095</td>
<td>Brushed Nickel (Non-Monitored)</td>
<td>$52.95 each</td>
</tr>
<tr>
<td>116094</td>
<td>Chrome (Monitored)</td>
<td>$57.95 each</td>
</tr>
<tr>
<td>116093</td>
<td>Brushed Nickel (Monitored)</td>
<td>$62.95 each</td>
</tr>
</tbody>
</table>

Ice Maker Installation Kit
1/4 inch connection kit includes 30 feet of 3/8” tubing, ball valve, and fittings.

<table>
<thead>
<tr>
<th>Part No. 500010</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$16.95/ea</td>
</tr>
</tbody>
</table>

Watts Premier Hot Water Recirculation System
Bring convenience and saving to your home, giving you hot water instantly at every faucet, when you need it. This unique product is easy to install and not only provides you with the convenience of hot water when you need it, but saves an average of over 15,000 gallons per year.

<table>
<thead>
<tr>
<th>Part No. 500800</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$229.99 each</td>
</tr>
</tbody>
</table>

Tank Ball Valve
Eliminates the need to drain the tank during normal filter changes. This easy to install valve attaches to the top of your water tank. The tank should always be drained after the membrane is changed.

<table>
<thead>
<tr>
<th>Part No. 134023</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$6.75/ea</td>
</tr>
</tbody>
</table>

*All prices subject to change without notice.*
Whole House High Performance Water Pressure Regulator
Provides water pressure control solutions for residential, commercial, and industrial applications. Offers durability and years of continuous trouble free operation.

Part No. 107001  $69.95/ea

Water Pressure Gauge
This gauge mounts onto your outside hose connection to accurately show your home’s water pressure up to 300 psi. A red needle shows peak overnight pressure, which may exceed readings during the day. High pressure readings may indicate the need for pressure regulator to prevent damage to appliances.

Part No. 261003  $14.95 each

Replacement Filter Kit
Compatible with Watts Premier Zero Waste Reverse Osmosis system. These filters provide an extra level of filtration by allowing for more contact between the carbon media and your water. Includes a 10” Final in-line Filter, Sediment Filter and a Carbon Block Filter.

Part No. 560032  $24.95 each

PERMEATE PUMP KIT - For Standard RO Systems (Non Zero Waste)
Using only the available energy from the brine water (otherwise lost to the drain), the pump forces product water into the storage tank. This process effectively reduces membrane back pressure to less than 5 psi and allows the membrane to maximize its use of the available feed pressure.

- Fills product tank up to 4 times more rapidly
- Reduces waste water by as much as 80%
- Lowers “TDS creep”
- NSF approved (Standard 58)

Part No. 560041  $65.95 each

Pocket Total Dissolved Solids (TDS) Monitor
Test water electronically to verify reverse osmosis membrane effectiveness. Carrying case included.

Part No. 273001  $39.95 each

Whole House Filter
Great for sediment problems such as in well water supply or areas where dirt and rust particles are a problem. Includes three 50 micron sediment filters and wrench (3/4” ports)

Part No. 500223  $42.95 each

Replacement filter
Part No. 304007  $4.50 each

*All prices subject to change without notice.
Removing chlorine from your shower

Special Chlorgon & KDF media – More effective then carbon medias with hot water applications in the removal of the following.

- Free Chlorine (CL-)
- Combined Chlorine (Sodium Hypochlorite)
- Hydrogen Sulfide (Rotten egg smell)
- Plus, its pH balanced.

Deluxe Shower Handle with Built in Filter
5-Way Massaging Spray  
72" Reinforced Hose  
High Strength Bracket  
Triple Plated Finish  
Reversible Filter Cartridge (Model HHC)  
Cartridge Life Rating:  3 months

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>107070</td>
<td>WHITE</td>
<td>$38.95</td>
</tr>
<tr>
<td>107091</td>
<td>CHROME</td>
<td>$44.95</td>
</tr>
<tr>
<td>107092</td>
<td>GOLD</td>
<td>$44.95</td>
</tr>
</tbody>
</table>

Shower Falls Deluxe Shower Handle with Built in Filter
Curved Ergonomic Shower Handle  
Filter Handle Extension  
Dual Swivel Adjustment  
Ultra Deluxe 5 Way Massaging Spray  
72" Reinforced Hose  
Chrome Plated Brass Bracket & Swivel Ball Extension  
Triple Plated Finish  
Reversible Filter Cartridge (Model HHC)  
Cartridge Life Rating:  3 months

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>107095</td>
<td>CHROME</td>
<td>$55.95</td>
</tr>
</tbody>
</table>

All-In-One reversible High-Flow Filter
Deluxe 5-Way Massaging Spray  
Soft-Touch Adjustment Pads  
Anti-Scaling Spray Nozzle  
High Strength Housing  
Triple Plated Finish  
Cartridge Life Rating:  6 months

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>107098</td>
<td>White/Chrome</td>
<td>$39.95</td>
</tr>
</tbody>
</table>

*All prices subject to change without notice.
4 Ways to Register

1. On-line at www.wattspremier.com
   Register your product on-line and receive a 5% discount on your next on-line order, Plus receive reduced shipping.

2. Call in your information 1-800-752-5582
   Call and we will enter your information.

3. Fax in your information 623-866-5666
   Fax this form directly to us.

4. Mail in the information.
   Please complete the form below. Mail to: Watts Premier
   8716 W Ludlow Drive Suite #1
   Peoria, AZ 85381

Watts Premier, Inc. is concerned for the safety of your personal information. Watts Premier collects personal information when you register with Watts Premier. This information is stored in our data base and we do not rent, sell, or share personal information with other people or nonaffiliated companies. We reserve the right to send you certain types of communications such as direct mail, email, or by telephone relating to our products or products that you have purchased. We limit access to your personal information to those employees who will directly provide you with services or products in order to do their jobs. We want to offer you four ways to communicate with us. 1. Online, 2. Fax, 3. Telephone, and 4. Mail the form below. By registering your product you will receive the full benefit of our warranty. Watts Premier will also send you a semiannual filter change reminder beginning six months from date of installation. To insure the highest quality of your water, filters should be replaced every 6 months. If you have any questions or comments please give us a call at 1-800-752-5582 M-F 8:00am - 5:00pm MST.
WARRANTY REGISTRATION

Please Fill out and keep for your Records

First Name:_________________________ Last Name:____________________________

Address: ________________________________________ City: ____________________

State: _______________________________________ Zip Code: ____________________

Country:  □ USA    □ CANADA   □ MEXICO    □ OTHER __________

Phone # ______-__________ -__________   Email Address: ______________________

Date of Purchase: ___________________      Date of Install: _______________________

Installed By: □ SELF   □ Plumbing Professional  Where Purchased: ____________

Model Number: _______________________              Serial Number: ____  -  __________

Iowa Department of Public Health - Sales in Iowa require this to be completed, signed and returned. These signatures will be retained on file for two years.

---

Insert into envelope and return to Watts Premier

Watts Premier
8716 W Ludlow Drive Suite #1
Peoria, AZ 85381
## SERVICE RECORD

<table>
<thead>
<tr>
<th>Date of Maintenance</th>
<th>(6 mos.) 1st stage Sediment</th>
<th>(6 mos.) 2nd stage Carbon Block</th>
<th>(1 yr.) Final Filter Carbon</th>
<th>(2-5 yrs.) TFM Memb.</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

## NOTES:

-
-
Limited Warranty

What your Warranty Covers:
If any part of your WATTS PREMIER Zero Waste Reverse Osmosis System is defective in workmanship (excluding replaceable filters and membranes), return unit after obtaining a return authorization (see below), less tank, within 1 year of original retail purchase, WATTS PREMIER will repair or, at WATTS PREMIER’S option, replace the system at no charge.

How to obtain Warranty Service:
For warranty service, call 1-800-752-5582 for a return authorization number and write your RA number on the outside of the box. Then, ship your Zero Waste unit (less tank) to our factory, freight and insurance prepaid, with proof of date of original purchase. Please include a note stating the problem. Premier will repair it, or replace it, and ship it back to you prepaid.

What this warranty does not cover:
This warranty does not cover defects resulting from improper installation, (contrary to WATTS PREMIER's printed instructions), from abuse, misuse, misapplication, improper maintenance, neglect, alteration, accidents, casualties, fire, flood, freezing, environmental factors, water pressure spikes or other such acts of God.

This warranty will be void if defects occur due to failure to observe the following conditions:
1. The Zero Waste System must be hooked up to a potable municipal or well cold water supply.
2. The hardness of the water should not exceed 7 grains per gallon, or 120 ppm.
3. Maximum incoming iron must be less than 0.2 ppm.
4. The pH of the water must not be lower than 2 or higher than 11.
5. The incoming water pressure must be between 40 and 100 pounds per square inch.
6. Incoming water to the RO cannot exceed 105 degrees F (40 degrees C.)
7. Incoming TDS/Total Dissolved Solids not to exceed 1800 ppm.
8. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

This warranty does not cover any equipment that is relocated from the site of its original installation.

This warranty does not cover any equipment that is installed or used outside the United States of America and Canada.

LIMITATIONS AND EXCLUSIONS:
WATTS PREMIER WILL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PREMIER WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING TRAVEL EXPENSE, TELEPHONE CHARGES, LOSS OF REVENUE, LOSS OF TIME, INCONVENIENCE, LOSS OF USE OF THE EQUIPMENT, AND DAMAGE CAUSED BY THIS EQUIPMENT AND ITS FAILURE TO FUNCTION PROPERLY. THIS WARRANTY SETS FORTH ALL OF PREMIER'S RESPONSIBILITIES REGARDING THIS EQUIPMENT.

OTHER CONDITIONS:
If PREMIER chooses to replace the equipment, WATTS PREMIER may replace it with reconditioned equipment. Parts used in repairing or replacing the equipment will be warranted for 90 days from the date the equipment is returned to you or for the remainder of the original warranty period, whichever is longer. This warranty is not assignable or transferable.

YOUR RIGHTS UNDER STATE LAW:
Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights, and you may have other legal rights which vary from state to state.