INSTALLATION, OPERATION AND MAINTENANCE MANUAL

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

Save manual for future reference

MODEL
WP-4V

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

Refer to enclosed warranty and operating parameters to ensure proper use with your water supply.
Thank you for your purchase of a state of the art Watts Premier Reverse Osmosis (RO) water treatment system. Water quality concerns are becoming more of a focus for the public. You may have heard about contaminants in the drinking water, such as Arsenic, Chromium, Cryptosporidium or Giardia. There may also be some local water issues such as high levels of Lead 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 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 clean water on the other. This is why RO systems produce both clean drinking water and waste water that is flushed from the system. This reverse osmosis system also utilizes carbon block filtration technology, and can therefore provide much higher quality drinking water than carbon filtration systems. Your system is a Four Stage RO which is based upon four separate treatment segments within 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 filter, 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 take out TDS & Sodium and a wide range of contaminants such as Perchlorate, Chromium, Arsenic, Copper, Lead, as well as Cysts, such as Giardia and Cryptosporidium and much more. Because the process of extracting this high quality drinking water takes time, your RO water treatment system is equipped with a storage tank.

**Stage 4- VOC Block, recommend change 12 months.**
Watts Premier WP-4V reverse osmosis system conforms to NSF/ANSI 58 for VOC reduction. Through the specialty formulated VOC post filter your system is capable of reducing harmful Volatile Organic Chemicals (VOC) like MTBE’s, Atrazine, Benzene, 2,4-D,Lindane and others from your drinking water. It is estimated that VOC’s are present in one-fifth of the nation’s water supplies. These water contaminants can enter ground water from a variety of sources including localized use of herbicides and pesticides, gasoline or oil spills, leaking underground fuel tanks, septic system cleaners, and chemicals used in the dry-cleaning industry. See performance data sheet for individual contaminants and reduction performance.

**Note:** Filter life may vary based upon local water conditions and/or use patterns.

**System Maintenance**
Just because you can not taste it, does not mean that it is not there. Contaminants such as lead, chromium, VOC’s and arsenic 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 filter 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 or call our customer service dept. at 1-800-752-5582.

With proper installation and maintenance, this system will provide you with high quality water for years to come. All of Premier’s 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) or refer to our on-line troubleshooting guide at www.wattspremier.com.
Table of Contents

Operational Parameters............................................................................................................. 4
Contents of Reverse Osmosis System......................................................................................... 4

Installation & Startup
Tools Recommended For Installation .......................................................................................... 4
Plumbing diagram and parts list .................................................................................................. 5
Drill a Hole for the Reverse Osmosis Faucet ............................................................................. 6
How to use Quick Connect Fittings on Your RO System ............................................................ 6
Faucet Installation ..................................................................................................................... 7
Helpful Installation Tips for the Watts Top Mount Faucet ........................................................ 8
Adapt-a-Valve Installation ........................................................................................................ 9
Drain Saddle Installation ......................................................................................................... 10
Drain Saddle Tube Connection ................................................................................................ 10
Reverse Osmosis Module Mounting .......................................................................................... 11
Green Tube Connection .......................................................................................................... 11
Tank Elbow Installation .......................................................................................................... 11
Connect Blue Tube from “TANK” Port on RO Module to the Tank .............................................. 11
Connect Blue Tube from the Faucet to RO Module ................................................................. 11
Connect the Red Tube from Faucet to RO Module ................................................................ 11
Start up Instructions .............................................................................................................. 12

Maintenance & Troubleshooting
Six Month Maintenance ........................................................................................................... 13
Annual Maintenance ............................................................................................................ 14
Membrane Replacement ....................................................................................................... 15
Check Air Pressure in the Tank ............................................................................................. 16
Procedure for Extended Non-Use (More than 2 months) ......................................................... 16
Troubleshooting .................................................................................................................... 17

Product Technical & Warranty Information
Performance Data Sheet .......................................................................................................... 18
California Certification ........................................................................................................... 19
Arsenic Fact Sheet ................................................................................................................ 20
VOC Performance Data Sheet ............................................................................................... 21
Other Products from Watts Premier ....................................................................................... 22-24
Warranty Registration ........................................................................................................ 25-26
Service Record ...................................................................................................................... 27
Limited Warranty ................................................................................................................ 28

**Before installation, please take a moment to fill out the warranty card on page 25.
Operational Parameters

*All Filters Are Pre-Installed*

**Installation must comply with State and local plumbing regulations. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. System is intended to be installed using the cold water supply only.**

<table>
<thead>
<tr>
<th><strong>Operating Temperatures:</strong></th>
<th>Maximum 100°F (37.8°C)</th>
<th>Minimum 40°F (4.4°C)</th>
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<tr>
<td><strong>Operating Pressure:</strong></td>
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<td>Minimum 40 psi (2.80 kg/cm²)</td>
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<td><strong>pH Parameters:</strong></td>
<td>Maximum 11</td>
<td>Minimum 2</td>
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<td><strong>Iron:</strong></td>
<td>Maximum 0.2 ppm</td>
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<tr>
<td><strong>TDS (Total Dissolved Solids)</strong></td>
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<td><strong>Turbidity:</strong></td>
<td>&lt; 5 NTU</td>
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<tr>
<td><strong>Hardness:</strong></td>
<td>Maximum 10 Grains Per Gallon</td>
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</tr>
</tbody>
</table>

**Hardness:** Recommended hardness not to exceed 10 grains per gallon, or 170 parts per million.

* 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 100 psi then a water pressure regulator is required. A booster pump is needed for incoming water pressure under 40 psi.

**Copper Tube:** Reverse Osmosis water should not be run through copper tube as the purity of the water will leach copper causing an objectional taste in water and pin holes may form in the tube.

**Contents of the Reverse Osmosis (RO) System**

1 Tank – White
1 Module – White
1 Parts Bag
1 Faucet Bag
1 Filter Wrench
1 Manual

*If any of the items are missing please contact Premier prior to installing.*

* All Filters Are Pre-Installed

**INSTALLATION & STARTUP**

**Tools Recommended For Installation**

- ✓ 1 1/4" Diamond Tipped Hole Saw bit for faucet opening (Counter Tops/Porcelain & Stainless Sinks)
- ✓ 1 1/4" Adjustable Wrench ✓ Phillips bit for electric drill
- ✓ 1/2" Open End Wrench ✓ Needle Nose Pliers
- ✓ 5/8" Open End Wrench ✓ Adjustable Pliers
- ✓ Electric Drill ✓ Sharp Knife
- ✓ 1/8" diamond tip bit, pilot hole ✓ Phillips Screw Driver
- ✓ 1/4" drain saddle hole
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<td>Drain Saddle 3/8&quot;</td>
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<tr>
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<td>1</td>
<td>610003</td>
<td>Prepared Lid, Manifold</td>
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Drill a Hole for the Reverse Osmosis Faucet

Marble Counter-top

*We recommend contacting a qualified contractor for drilling a hole in a marble counter-top.*

Counter Top / Porcelain & Stainless Steel Sink

*Note: Most sinks are pre drilled with 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)*

Entire sinks are extremely hard and can crack or chip easily. Use extreme caution when drilling. Watts accepts no responsibility for damage resulting from the installation of faucet. Diamond tip bit recommended.

**Step 1**
Determine desired location for the RO faucet on your sink and place a piece of masking tape 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 1/8” 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 ¼” diamond tip 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**
After drilling, remove all sharp edges and make sure the surroundings of the sink are cooled before mounting the faucet.

How to use the Quick Connect Fittings

To make a connection, the tube is simply pushed into the fitting. The unique locking system holds the tube firmly in place without deforming it or restricting flow. Use the steps below in reference to any quick connect tube connections.

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

2. **Insert tube**
   - Fitting grips before it seals. Ensure tube is pushed into the tube stop.

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

4. **Pull to check secure**
   - Pull on the tube to check that it is secure. It is a good practice to test the system prior to leaving site and/or before use.

To disconnect, ensure the system is depressurized before removing the tube. Push in the collet squarely against face of fitting. With the collet held in this position, the tube can be removed. The fitting can then be reused.
**WATTS Premier Monitored (Top Mount) Faucet Installation**

A) **Connect tubes to the RO faucet (Figure A)**

This RO faucet is equipped with quick connect fittings for easy tube installation. To connect tubes, simply push them **firmly** into their corresponding fitting on the RO faucet until fully seated.

**Approximately 3/4” of the tube should go into the fitting.**

1. Connect 3/8” **BLUE** tube. (3/8” Fitting on Toggle Bolt)
2. Connect 3/8” **BLACK** tube . (3/8” Fitting on base of faucet)
3. Connect 1/4” **RED** tube. (1/4” Fitting on base of faucet)

To disconnect a tube, push in collet (Fig. b) squarely against face of fitting (Fig. a). With collet held in this position the tube can be removed.

B) **Mount the RO faucet (Figure B)**

A 1.0” - 1.25” Mounting hole is required for faucet installation.

4. Feed the toggle bolt and tubes through the mounting hole in The sink. Test fit faucet placement.
5. Peel the white backing paper off the seal on the bottom of the faucet base and press firmly over the mounting location.
6. Using a flat head screwdriver torque the toggle bolt through the spout hole to approximately 5lbs/in.

C) **Pull Battery Tab and Install Spout (Figure C)**

7. Insert spout into the faucet base until fully seated.
8. Pull the Battery Safety Tab out to activate faucet monitor. Make sure that the clear drawer is firmly seated in the faucet base. The monitor will flash briefly once activated.

**CAUTION!**

“This product contains a button cell battery. If swallowed, it could cause severe injury or death in just 2 hours. Seek medical attention immediately.”
Helpful Installation Tips for the Watts Top Mount Faucet

During shipping/handling the toggle bolt on your new faucet may push up out of position. Prior to the install, hold the faucet as shown in the picture and pull down on the wing nut. This will ensure that the O-rings are in their proper position and that your faucet will have a good seal.

Disassembling your faucet is never recommended as this could void your warranty. If it is necessary to remove the fitting at the end of the toggle bolt you must follow the following procedure for re-assembly. Prior to re-connecting the fitting to the toggle bolt, you must insert the 3/8” blue tube into the fitting. There are small O-rings inside of the fitting that could be pushed out of position if the blue tube is not fully inserted first. Failure to do so may cause the faucet to leak.
Adapt-a-Valve Installation

**Caution:** Water supply line to the system must be from the cold water supply line only. Hot water will severely damage your system.

Verify contents prior to installation:
(1) - Plastic Adapt-a-Valve with black collet
(1) - Brass Adapter no washer
(1) - Brass Adapter with black washer
(1) - White rubber washer

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

Step 5  Turn off the cold water supply to the faucet by turning the angle stop valve completely off. Open cold water sink faucet to relieve pressure.

Step 6  Choosing the configuration that fits your plumbing, attach the adapt-a-valve as illustrated in the four photos above.

**TIPS:** Make sure that the black collet is installed in to the 1/4” opening on the Adapt-a-valve. Don’t forget to install the white compression washer with the 3/8” configuration. Brass adapter (A) does not need to be tightened with a wrench, only finger tight.
Drain Saddle Installation

Drain Saddle fits standard 1 ¼” – 1 ½” drain pipes

Caution: If you have a garbage disposal, do not install the drain saddle near it. Installation of the drain saddle must be either above the garbage disposal, or if a second sink drain is available, install it above the cross bar on the second drain. Installation of the drain saddle near a garbage disposal may cause the drain line to plug. If no other installation of drain line is available, Watts Premier offers drain line installation kit (part number 164020) that can be used with garbage disposals.

Step 7 Gather the pieces of the drain saddle:
1 Black compression nut
1 Semicircle bracket with opening
2 Screws
1 Foam gasket
2 Nuts for screws
1 Semicircle bracket

Step 8 The small square black foam gasket with a circle cut out of the middle must be applied to the inside of the drain saddle. Remove sticky tape backing and stick to the drain saddle as shown.

Step 9 The drain saddle must be mounted at least 1 ½” above the nut of the P-trap or cross bar from the garbage disposal to insure proper drainage. Assemble the drain saddle around the drain pipe at the best available location. Using Phillips screw driver tighten screws evenly and securely on both sides of the drain saddle. Keep the plastic compression nut off at this time.

Caution: Do not over tighten the screws. It may crack the drain saddle.

Drill hole and Connect 3/8” Black Tube from Faucet to the Drain Saddle

IMPORTANT:
The black 3/8” drain tube must be as SHORT and STRAIGHT as possible to the drain saddle, making a downward slope from faucet to drain saddle to allow for proper drainage. This is a gravity fed line and if there is any bend or dip in the tube, the rinse water will not flow into the drain properly. Water may back up and come out the air gap hole in the back of the faucet.

Step 10 With the drain saddle secured onto the drain pipe, using a 1/4” drill bit installed in your electric drill, insert the drill bit through the opening in the drain saddle and drill into the drain pipe.

Caution: It is very important to keep the drill centered to prevent damage of the drain saddle while drilling.

Step 11 Measure the 3/8” black tube from faucet to the drain saddle on the drain pipe and make a straight cut to the correct length.

Step 12 Slip black tube through black compression nut. Insert black tube into the opening in the drain saddle and hand tighten the black nut, and add 1/4 turn with a wrench.
Reverse Osmosis Module Mounting

Step 13  Determine best location for the RO module to be mounted to allow for future system maintenance. Using the mounting holes on the bracket, mark the location for the mounting screws on the cabinet wall under the sink. In the parts bag, locate the two self tapping screws. Using an electric drill with a Phillips bit, screw them into the cabinet at the marked location. Hang the module on the screws using the mounting holes in the bracket.

Green Tube Connection

Step 14  Locate green tube attached to the RO Module. Insert the open end of the green 1/4” tube into the open 1/4” quick connect fitting on the plastic water feed valve making sure the tube is pushed in all the way to the tube stop.

Note:  Do not let the tape cover the opening.

Step 15  Wrap (7 to 12 turns) of Teflon tape clockwise around the male pipe threads (MPT) on the Stainless Steel fitting on top of the tank.

Tank Elbow Installation

Step 16  Thread the plastic elbow (supplied in the parts bag) onto the stainless steel connection on the top of tank. Tighten using an adjustable wrench. Do not over tighten as plastic could crack.

Connect Blue Tube from “TANK” Port on RO Module to the 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 attached to the RO module port marked “TANK” over to the tank and cut it to desired length.

Step 18  Insert the blue 3/8” tube into the open compression side of the elbow previously installed on top of the storage tank and push in as far as it will go. Tighten the compression nut securely with a wrench.

Connect the Blue Tube from the Faucet to RO Module

Step 19  Insert the blue 3/8” tube from the faucet into the port on the module marked “FAUCET”. Make sure the tube is pushed in all the way to the tube stop.

Note:  A connection to a refrigerator / ice maker may be tee’d into this blue tube. Watts Premier offers an ice maker install kit part # 500102 (See Page 22).

Connect the Red Tube from Faucet to RO Module

Step 20  Insert the open end of the red 1/4” tube attached to the RO faucet into the 1/4” X 1/4” quick connect fitting on the RO Manifold. Make sure the tube is pushed in all the way to the tube stop. (See Picture)
Congratulations!
You have completed the installation of your new Reverse Osmosis system.

Please Follow the Startup Instructions.

Start up Instructions

Step 1  Turn on the incoming cold water at the angle stop valve and the Adapt-a-Valve. Check the system for leaks and tighten any fittings as necessary. (Check frequently over the next 24 hours to ensure no leaks are present).

Note: **If you have connected your RO system to a refrigerator / ice maker, make sure the ice maker is off (do not allow water to flow to the ice maker) until flushing (Step 4) is complete and the tank has been allowed to fill completely. Connection from the RO to the ice maker system should have an in-line valve installed before the ice maker so it can easily be closed to prevent water flowing to the ice maker during start up and periodic maintenance. Your storage tank must be allowed to fill up fully in order for the ice maker system to work properly.**

Step 2  Open the RO faucet and leave it open until water begins to trickle out (this may take a few minutes and the water will come out slowly).

Step 3  Close the RO faucet allowing the storage tank to fill with water. It may take 3 to 6 hours to fill the tank completely depending on the production capability of the membrane, local water temperature and water pressure.

Note: **During the fill period you may hear water trickling which is a normal occurrence.**

Step 4  After the storage tank has filled (the water trickling has stopped), 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.

**The flushing process should take about a day to complete.**

Note: **Flushing of the tank 3 times is only necessary during the initial startup and after replacing the membrane.**

Don’t Forget To Register!

Register by mail, phone, fax or internet. Watts Premier uses this information only to provide a filter change reminder notice. Pre-filters should be changed every 6 months and VOC filter annually. You may register your system via our website at www.wattspremier.com or call 1-800-752-5582 (within USA only) / FAX#: 623-866-5666.
6 Month System Maintenance

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

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

Step 1  Turn off the incoming water supply to the RO at the adapt-a-valve. (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.

**Note:** *Water Can be saved in a container for drinking or to rinse system parts.*

Step 3  Let system sit for a few minutes after tank is empty to depressurize before attempting to remove filter housings.

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 hangs, remove it prior to changing filters. Starting with the closest housing (Stage 1), remove it by turning it clockwise, empty water, then discard filter. Continue on to the 2nd housing (Stage 2).

Step 5  Clean 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 the new sediment filter (cloth like appearance) into the 1st filter housing which is the one closest to the side with tubing connections and re-install housing.

Step 7  Insert the new Carbon Block filter (White End Caps) into the middle housing and re-install housing.

Step 8  Turn water on to the unit at the adapt-a-valve.

Step 9  Open the RO faucet and leave it open until water begins to trickle out (it will come out slowly).

Step 10  Close the RO faucet allowing the storage tank to fill with water. It may take 3 to 6 hours to fill the tank completely depending on the production capability of the membrane, local water temperature and water pressure.

**Note:** *To reset the electronic monitor during replacement of filters, slide out the battery from the base of the faucet, wait one minute and reinsert.*
Annual Maintenance

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

- Stage 1 - Sediment Filter (part #: 104017)
- Stage 2 - Carbon Block Filter (part #: 101009-White end caps)
- Stage 4 - VOC Carbon Block (part #: 101013-Blue end caps)
- 1/2 Cup of hydrogen peroxide or 2 tablespoons of common household bleach.

**Note:** Sanitizing of unit is recommended.

Step 1  Perform steps 1 through 3 in the Six Month System Maintenance (Page 13).
Step 2  For more leverage you may leave the RO module attached to wall of cabinet. If you are unable to access the module while it hangs, remove it prior to changing filters. Starting with the closest housing (Stage 1), remove it by turning it clockwise, empty water, then discard filter. Continue on to the 2nd (Stage 2) and 3rd (Stage 4) housings.

**Note:** If not sanitizing the system skip to step 9.

Step 3  Open the horizontal membrane housing and remove the RO membrane. Rest the membrane in a clean, sanitary place. Replace the empty membrane housing onto the unit.
Step 4  Leaving the filters out, replace stage 2 and 4 empty filter housings (hand tight) onto unit. Measure & pour either 1/2 cup of hydrogen peroxide or 2 tablespoons of common household bleach into the 1st filter housing (Stage 1) and hand tighten onto unit.
Step 5  Turn on incoming water supply to the system at the adapt-a-valve. 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 6  Turn off the incoming water supply to the system at the adapt-a-valve. Keep the RO faucet open until the storage tank is completely drained.
Step 7  Open the membrane vessel and insert the RO membrane back into the manifold while making sure not to kink the O-rings. Tighten the membrane housing back on the RO unit (Refer to “Membrane Replacement” below for details).
Step 8  Remove filter housings Stage 1, 2 and 4 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 9  Insert the new sediment filter (cloth like appearance) into the 1st filter housing which is the one closest to the side with tubing connections and re-install housing.
Step 10 Insert the new Carbon Block filter (White End Caps) into the middle housing and re-install housing.
Step 11 Insert the new VOC Carbon Block filter (Blue End Caps) into the 3rd filter housing which is the one farthest from the side with tubing connections and re-install housing.

**Tip:** This is a good time to check the air pressure in your storage tank. For instructions please see page 15.

Step 12 Follow Steps 8 through 10 in the Six Month System Maintenance (Page 13) for startup directions.
Membrane Replacement

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%.

Note: A water sample may be sent to Watts Premier for a free diagnosis of your membranes 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 water supply to the RO at the adapt-a-valve. (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.

Step 3  Remove the horizontal membrane housing on top of the unit by turning it counter clockwise to loosen.

Step 4  Pull firmly on the yellow RO membrane to remove it from the housing and discard.

Step 5  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 into the cap. Twist the membrane as you push it firmly into the manifold.

Caution: Before re-installing the membrane housing back on to the system, check O-ring on the housing to make it is still in place and lubricate with water soluble lubricant.

Step 6  Replace the membrane housing onto the cap by turning clockwise. Tighten securely.

Step 7  Follow Start up procedure on page 12.
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 the blue plastic cap.

**Step 1** Turn off the incoming water supply to the RO.

**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)

**Step 4** Follow startup procedure on page 12.

Procedure for Extended Non-Use (More than 2 months)

Turn off the water supply to the RO system at the adapt-a-valve and open the RO faucet to empty the storage tank (Save a few ounces of RO water). Once the storage tank is empty, remove the membrane and place it in a sealed plastic bag with the RO water saved earlier and store in your refrigerator.

For restart, reinstall membrane and follow startup procedure on page 12.
## TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Low/Slow Production</td>
<td>Low Water Pressure</td>
<td>Assure a minimum of 40 psi incoming water pressure. Premier sells a booster pump if home water pressure is low. Make sure water supply is turned on and Adapta Valve is all the way open.</td>
</tr>
<tr>
<td></td>
<td>Crimp in tubing</td>
<td>Check tubing and straighten or replace as necessary.</td>
</tr>
<tr>
<td></td>
<td>Clogged pre-filters</td>
<td>Replace pre-filters.</td>
</tr>
<tr>
<td></td>
<td>Fouled membrane</td>
<td>Replace membrane and clean flow restrictor.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Milky colored Water</td>
<td>Air in 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 change, drain tank 1 to 2 times.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Water constantly running/unit will not</td>
<td>Low water pressure</td>
<td>See #1 Above</td>
</tr>
<tr>
<td>shut off</td>
<td>Fouled membrane</td>
<td>Replace membrane</td>
</tr>
<tr>
<td></td>
<td>High water pressure</td>
<td>Check incoming water pressure to make sure it does not exceed 100 psi. A pressure relief valve may be necessary.</td>
</tr>
<tr>
<td></td>
<td>High air pressure in tank</td>
<td>Empty storage tank of water. Set tank air pressure to 5 psi. See Page 16.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Noise from faucet or drain</td>
<td>Air gap faucet</td>
<td>Inherent sound with air-gap faucets.</td>
</tr>
<tr>
<td></td>
<td>Location of drain saddle</td>
<td>See diagram for proper location of drain saddle.</td>
</tr>
<tr>
<td></td>
<td>Higher capacity membrane</td>
<td>Normal with high capacity membrane</td>
</tr>
<tr>
<td></td>
<td>High water pressure</td>
<td>Check incoming water pressure to make sure it does not exceed 100 psi. A presser relief valve may be necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Faucet leaks from the air gap feature</td>
<td>Crimp or loop in drain line</td>
<td>Straighten black 3/8 drain tube. Cut off any excess tubing</td>
</tr>
<tr>
<td></td>
<td>Drain tube clogged/restricted</td>
<td>Caused from dishwasher or garbage disposal.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disconnect the 3/8” black tube at the drain, clean the 3/8” black tube out with a wire, then reconnect.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Small amount of water in storage tank</td>
<td>System just starting up</td>
<td>Normally it takes 3-6 hours to fill tank. Note: Low water pressure and/or temperature can drastically reduce production rate.</td>
</tr>
<tr>
<td></td>
<td>Low water pressure</td>
<td>See #1 Above</td>
</tr>
<tr>
<td></td>
<td>Too much air in tank</td>
<td>Add air if below 5 psi and bleed if above 5 psi. Check only when tank is empty of water. See Page 15.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Water leaks from the filter housing</td>
<td>Not properly tightened</td>
<td>Tighten the bowl</td>
</tr>
<tr>
<td></td>
<td>Missing or kinked O-ring</td>
<td>Turn off the water supply. Release the pressure, remove bowl and replace the O-ring. (p/n 113043). Make sure the O-ring is seated in the filter bowl properly before reinstalling the filter bowl.</td>
</tr>
</tbody>
</table>
# TECHNICAL & WARRANTY INFORMATION

**Performance Data Sheet**  
WP-4v  
Watts Premier Inc.  
8716 W Ludlow Drive Suite #1  
Peoria, AZ 85381  85027 USA

## GENERAL USE CONDITIONS:
1. System to be used with municipal or well water sources treated and tested on regular basis to insure bacteriological safe quality. DO NOT use with water that is microbiologically unsafe or unknown quality without adequate disinfection before and after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
2. Operating Temperature:  
   - Maximum: 100°F (40.5°C)  
   - Minimum: 40°F (4.4°C)
3. Operating Water Pressure:  
   - Maximum: 100 psi (7.0kg/cm2)  
   - Minimum: 40 psi (2.8kg/cm2)
4. pH:  
   - 2 to 11
5. Maximum iron present in incoming feed water supply must be less than 0.2 ppm.
6. Hardness of more than 10 grains per gallon (170 ppm) may reduce RO membrane life expectancy.
7. Recommend TDS (Total Dissolved Solids) not to exceed 1800 ppm.

## RECOMMENDED REPLACEMENT PARTS AND CHANGE INTERVALS:

<table>
<thead>
<tr>
<th>Description</th>
<th>Change time Frame</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sediment Pre-filter: #104017</td>
<td>6 Months</td>
<td>$3.50</td>
</tr>
<tr>
<td>Carbon Pre-filter: #101009</td>
<td>6 Months</td>
<td>$10.50</td>
</tr>
<tr>
<td>Stage 4 - VOC filter #</td>
<td>12 Months</td>
<td>$24.95</td>
</tr>
<tr>
<td>R.O. Membrane: #110016</td>
<td>2 to 5 years</td>
<td>$74.95</td>
</tr>
</tbody>
</table>

*All Prices Subject to change without notice

This system has been tested according to NSF/ANSI 58 for the reduction of the 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. 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 Performance Data Sheet for further information.

## Performance Data

### Avg. In. (mg/L) % Reduction Avg. Eff. (mg/L) pH Pressure Max Eff. mg/L Inf. challenge mg/L Max Allowable concentration mg/L Recovery - 16.0%

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (Pentavalent)</td>
<td>334.62 ug/L</td>
<td>98.4%</td>
<td>5.039 ug/L</td>
<td>50psi</td>
<td>19 ug/L</td>
<td>0.30±10%</td>
<td>0.010 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barium Reduction</td>
<td>10.2</td>
<td>98.7%</td>
<td>0.13</td>
<td>7.24</td>
<td>50psi</td>
<td>0.27</td>
<td>10.0±10%</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Cadmium Reduction</td>
<td>0.031</td>
<td>99.7%</td>
<td>0.001</td>
<td>7.49</td>
<td>50psi</td>
<td>0.0009</td>
<td>0.03±10%</td>
<td>0005</td>
<td></td>
</tr>
<tr>
<td>Chromium (Hexavalent)</td>
<td>0.30</td>
<td>98.0%</td>
<td>0.006</td>
<td>7.24</td>
<td>50psi</td>
<td>0.013</td>
<td>0.03±10%</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Chromium (Trivalent)</td>
<td>0.30</td>
<td>99.0%</td>
<td>0.003</td>
<td>7.24</td>
<td>50psi</td>
<td>0.008</td>
<td>0.03±10%</td>
<td>0.1</td>
<td></td>
</tr>
<tr>
<td>Copper Reduction</td>
<td>3.0</td>
<td>98.7%</td>
<td>0.04</td>
<td>7.64</td>
<td>50psi</td>
<td>0.06</td>
<td>3.0±10%</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>Cysts</td>
<td>222,077#/ml</td>
<td>99.99%</td>
<td>10#/ml</td>
<td>50psi</td>
<td>58</td>
<td>Minimum 50,000/mL</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluoride Reduction</td>
<td>8.0</td>
<td>95.9%</td>
<td>0.33</td>
<td>7.49</td>
<td>50psi</td>
<td>0.47</td>
<td>8.0±10%</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Lead Reduction</td>
<td>0.15</td>
<td>97.3%</td>
<td>0.004</td>
<td>7.49</td>
<td>50psi</td>
<td>0.008</td>
<td>0.15±10%</td>
<td>0.0107</td>
<td></td>
</tr>
<tr>
<td>Radium 226/228</td>
<td>25pCi/L</td>
<td>80.0%</td>
<td>5pCi/L</td>
<td>7.24</td>
<td>50psi</td>
<td>0.008</td>
<td>0.15±10%</td>
<td>5pCiL</td>
<td></td>
</tr>
<tr>
<td>Selenium</td>
<td>0.10</td>
<td>99.0%</td>
<td>&lt;0.001</td>
<td>50psi</td>
<td>0.01</td>
<td>0.10±10%</td>
<td>0.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDS</td>
<td>765</td>
<td>96%</td>
<td>24</td>
<td>7.84</td>
<td>50psi</td>
<td>39.0</td>
<td>750±40mg/L</td>
<td>187</td>
<td></td>
</tr>
<tr>
<td>Turbidity</td>
<td>81 NTU</td>
<td>99.8%</td>
<td>0.15 NTU</td>
<td>50psi</td>
<td>0.28 NTU</td>
<td>11±1 NTU</td>
<td>0.5 NTU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Refer to the VOC Performance Data Sheet for the complete list of VOC’s.

### Daily Production Rate - 9.56 GPD Efficiency - 9.58%

Depending on water chemistry, water temperature, and water pressure Watts Premier’s R.O. Systems production and performance will vary. 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.

**Refer to Owner’s Installation/Service Manual for Further Maintenance Requirements and Warranty Information.**

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

Page 18
# California Certification

State of California  
Department of Health Services  
Water Treatment Device  
Certificate Number  
05 - 1731  
Date Issued: November 9, 2005

<table>
<thead>
<tr>
<th>Trademark/Model Designation</th>
<th>Replacement Element(s)</th>
</tr>
</thead>
</table>
| WP-4v                      | sediment prefilter: 104017  
carbon prefilter: 101009  
membrane: 110016  
post filter: 101013 |

**Manufacturer:** Watts Premier

The water treatment device(s) listed on this certificate have met the testing requirements pursuant to Section 116830 of the Health and Safety Code for the following health related contaminants:

**Microbiological Contaminants and Turbidity**  
Cysts

**Organic Contaminants**  
VOCs

- Alachlor  
- Atrazine  
- Benzene  
- Carbofuran  
- Carbon Tetrachloride  
- Chlorobenzene  
- Chloropicrin  
- 2,4-D  
- DBCP  
- cis-1,2-Dichloroethylene  
- trans-1,2-Dichloroethylene  
- cis-1,3-Dichloropropene  
- Dinoseb

- Ethylbenzene  
- EDB  
- Halogenated (HAN)  
- Bromochloroacetone  
- Dichloroacetone  
- Dichloroacetamide  
- Trichloroacetone  
- Halogenated (HK)  
- 1,1-Dichloro-2-Propanone  
- 1,1,1-Trichloro-2-Propanone  
- Heptachlor  
- Heptachlor Epoxide  
- Hexachlorobutadiene  
- Hexachlorocyclopentadiene  
- Tetrachloroethylene  
- Methoxychlor  
- Perchloroethene

- Smazine  
- Stryene  
- 1,1,2,2-Tetrachloroethane  
- Tetrachloroethylene  
- Toxaphene  
- 2,4,5-TP (Silvex)  
- Tribromoacetic Acid  
- 1,2,4-Trichlorobenzene  
- 1,1,1-Trichloroethane  
- 1,1,2-Trichloroethylene  
- Trichloroethene  
- Trichloromethanes (THMs)  
- Bromodichloromethane  
- Bromoform  
- Chloroform  
- Chlorodibromomethane  
- Xylenes

| Rated Service Capacity: 600 gals | Rated Service Flow: 9 gpd |

Do not use where water is microbiologically unsafe or with water of unknown quality, except that systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

1 Claims for arsenic reduction shall only be made on water supplies maintaining detectable residual free chlorine at the reverse osmosis (RO) system inlet. Water systems using an in-line chlorinator should provide a minimum of 1 minute chlorine contact time before the RO system.

2 This system is acceptable for treatment of influent perchlorate concentrations of no more than 100 ug/L.
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 within 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 well water, arsenic may be pentavalent, trivalent, or a combination of both. Although both forms of arsenic are potentially hazardous to your health, trivalent arsenic is considered more harmful than pentavalent arsenic.

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) where it does convert trivalent arsenic to pentavalent arsenic, may not convert all the trivalent arsenic in to pentavalent 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 up to 98% of 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. In addition to the independent laboratory standard testing conditions Watts Premier has conducted additional field testing on our reverse osmosis units to determine trivalent arsenic reduction capabilities. Based upon Watts Premier field testing, it has been determined that the RO units are capable of reducing up to 67% of trivalent arsenic from the drinking water.

The RO membrane component of this Watts Premier reverse osmosis system must be maintained according to its recommended maintenance cycle. Specific component identification and ordering information can be found in the installation/operation manual maintenance section, by phone at 1-800-752-5582 or online 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.
<table>
<thead>
<tr>
<th>Substance</th>
<th>Percent Reduction</th>
<th>Influent Challenge Concentration (mg/L unless noted)</th>
<th>Maximum Permissible Product Water Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALACHLOR</td>
<td>&gt;98%</td>
<td>0.05</td>
<td>0.001</td>
</tr>
<tr>
<td>ATRAZINE</td>
<td>&gt;97%</td>
<td>0.1</td>
<td>0.003</td>
</tr>
<tr>
<td>BENZENE</td>
<td>&gt;99%</td>
<td>0.081</td>
<td>0.001</td>
</tr>
<tr>
<td>BROMODICHLOROMETHANE (TTHM)</td>
<td>&gt;99.8%</td>
<td>0.300 +/- 0.30</td>
<td>0.015</td>
</tr>
<tr>
<td>BROMOFORM (TTHM)</td>
<td>&gt;99.8%</td>
<td>0.300 +/- 0.30</td>
<td>0.015</td>
</tr>
<tr>
<td>CARBOFURAN (Furadan)</td>
<td>&gt;99%</td>
<td>0.19</td>
<td>0.001</td>
</tr>
<tr>
<td>CARBON TETRACHLORIDE</td>
<td>98%</td>
<td>0.078</td>
<td>0.0018</td>
</tr>
<tr>
<td>CHLOROBENZENE (Monochlorobenzene)</td>
<td>&gt;99%</td>
<td>0.077</td>
<td>0.001</td>
</tr>
<tr>
<td>CHLOROPRIN</td>
<td>99%</td>
<td>0.015</td>
<td>0.0002</td>
</tr>
<tr>
<td>CHLOROFORM (TTHM)</td>
<td>&gt;99.8%</td>
<td>0.300 +/- 0.30</td>
<td>0.015</td>
</tr>
<tr>
<td>2,4-D</td>
<td>98%</td>
<td>0.110</td>
<td>0.0017</td>
</tr>
<tr>
<td>DBCP (see Dibromochloropropane)</td>
<td>&gt;99%</td>
<td>0.052</td>
<td>0.00002</td>
</tr>
<tr>
<td>1,2-DCA (see 1,2-DICHLOROETHANE)</td>
<td>95%</td>
<td>0.088</td>
<td>0.0048</td>
</tr>
<tr>
<td>1,1-DCE (see 1,1-DICHLOROETHYLENE)</td>
<td>&gt;99%</td>
<td>0.083</td>
<td>0.001</td>
</tr>
<tr>
<td>DIBROMOCHLOROMETHANE (TTHM; Chlorodibromomethane)</td>
<td>&gt;99.8%</td>
<td>0.300 +/- 0.30</td>
<td>0.015</td>
</tr>
<tr>
<td>DIBROMOCHLOROPROPANE (DBCP)</td>
<td>&gt;99%</td>
<td>0.052</td>
<td>0.00002</td>
</tr>
<tr>
<td>o-DICHLOROBENZENE (1,2 Dichlorobenzene)</td>
<td>&gt;99%</td>
<td>0.09</td>
<td>0.001</td>
</tr>
<tr>
<td>p-DICHLOROBENZENE (para-Dichlorobenzene)</td>
<td>&gt;98%</td>
<td>0.04</td>
<td>0.001</td>
</tr>
<tr>
<td>1,2-DICHLOROETHANE (1,2-DCA)</td>
<td>95%</td>
<td>0.088</td>
<td>0.0048</td>
</tr>
<tr>
<td>1,1-DICHLOROETHYLENE (1,1-DCE)</td>
<td>&gt;99%</td>
<td>0.083</td>
<td>0.001</td>
</tr>
<tr>
<td>CIS-1,2-DICHLOROETHYLENE</td>
<td>&gt;99%</td>
<td>0.17</td>
<td>0.0005</td>
</tr>
<tr>
<td>TRANS-1,2-DICHLOROETHYLENE</td>
<td>&gt;99%</td>
<td>0.086</td>
<td>0.001</td>
</tr>
<tr>
<td>1,2-DICHLOROPROPANE (Propylene Dichloride)</td>
<td>&gt;99%</td>
<td>0.08</td>
<td>0.001</td>
</tr>
<tr>
<td>CIS-1,3-DICHLOROPROPYLENE</td>
<td>&gt;99%</td>
<td>0.079</td>
<td>0.001</td>
</tr>
<tr>
<td>DINOSEB</td>
<td>99%</td>
<td>0.17</td>
<td>0.0002</td>
</tr>
<tr>
<td>EDB (see ETHYLENE DIBROMIDE)</td>
<td>&gt;99%</td>
<td>0.044</td>
<td>0.00002</td>
</tr>
<tr>
<td>ENDRIN</td>
<td>99%</td>
<td>0.053</td>
<td>0.00059</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>&gt;99%</td>
<td>0.088</td>
<td>0.001</td>
</tr>
<tr>
<td>ETHYLENE DIBROMIDE (EDB)</td>
<td>&gt;99%</td>
<td>0.044</td>
<td>0.00002</td>
</tr>
<tr>
<td>Furadan (see CARBOFURAN)</td>
<td>&gt;99%</td>
<td>0.19</td>
<td>0.001</td>
</tr>
<tr>
<td>HALOACETONITRILES (HAN)</td>
<td>98%</td>
<td>0.022</td>
<td>0.0005</td>
</tr>
<tr>
<td>DIBROMOACETONITRILE</td>
<td>98%</td>
<td>0.024</td>
<td>0.0006</td>
</tr>
<tr>
<td>DICHLORACETONITRILE</td>
<td>98%</td>
<td>0.0096</td>
<td>0.0002</td>
</tr>
<tr>
<td>TRICHLORACETONITRILE</td>
<td>98%</td>
<td>0.015</td>
<td>0.0003</td>
</tr>
<tr>
<td>HALOKETONES (HK):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-DICHLORO-2-PROPANONE</td>
<td>99%</td>
<td>0.0072</td>
<td>0.0001</td>
</tr>
<tr>
<td>1,1,1-TRICHLORO-2-PROPANONE</td>
<td>96%</td>
<td>0.0082</td>
<td>0.0003</td>
</tr>
<tr>
<td>HEPTACHLOR</td>
<td>&gt;99%</td>
<td>0.25</td>
<td>0.00001</td>
</tr>
<tr>
<td>HEPTACHLOR EPOXIDE</td>
<td>96%</td>
<td>0.107</td>
<td>0.0002</td>
</tr>
<tr>
<td>HEXACHLOROBUTADIENE (Perchlorobutadiene)</td>
<td>&gt;98%</td>
<td>0.044</td>
<td>0.001</td>
</tr>
<tr>
<td>HEXACHLOROCYCLOPENTADIENE</td>
<td>&gt;99%</td>
<td>0.060</td>
<td>0.000002</td>
</tr>
<tr>
<td>LINDANE</td>
<td>&gt;99%</td>
<td>0.055</td>
<td>0.00001</td>
</tr>
<tr>
<td>METHOXYCHLOR</td>
<td>&gt;99%</td>
<td>0.050</td>
<td>0.0001</td>
</tr>
<tr>
<td>Methylbenzene (see TOLUENE)</td>
<td>&gt;99%</td>
<td>0.078</td>
<td>0.001</td>
</tr>
<tr>
<td>Monochlorobenzene (see CHLOROBENZENE)</td>
<td>&gt;99%</td>
<td>0.077</td>
<td>0.001</td>
</tr>
<tr>
<td>PCE (see TETRACHLOROETHYLENE)</td>
<td>&gt;99%</td>
<td>0.081</td>
<td>0.001</td>
</tr>
<tr>
<td>PENTACHLOROPHENOL</td>
<td>&gt;99%</td>
<td>0.096</td>
<td>0.001</td>
</tr>
<tr>
<td>Perchlorobutadiene (see HEXACHLOROBUTADIENE)</td>
<td>&gt;98%</td>
<td>0.044</td>
<td>0.001</td>
</tr>
<tr>
<td>Propylene Dichloride (see 1,2-DICHLOROPROPANE)</td>
<td>&gt;99%</td>
<td>0.080</td>
<td>0.001</td>
</tr>
<tr>
<td>SIMazine</td>
<td>&gt;97%</td>
<td>0.120</td>
<td>0.004</td>
</tr>
<tr>
<td>Silvex (see 2,4,5-TP)</td>
<td>95%</td>
<td>0.270</td>
<td>0.0018</td>
</tr>
<tr>
<td>STYRENE (Vinylbenzene)</td>
<td>&gt;99%</td>
<td>0.15</td>
<td>0.0005</td>
</tr>
<tr>
<td>1,1,1-TCA (see 1,1,1-TRICHLOROETHANE)</td>
<td>95%</td>
<td>0.084</td>
<td>0.0046</td>
</tr>
<tr>
<td>TCE (see TRICHLOROETHYLENE)</td>
<td>&gt;99%</td>
<td>0.180</td>
<td>0.0010</td>
</tr>
<tr>
<td>1,1,2,2- TETRACHLOROETHANE</td>
<td>&gt;99%</td>
<td>0.081</td>
<td>0.001</td>
</tr>
<tr>
<td>TETRACHLOROETHYLENE</td>
<td>&gt;99%</td>
<td>0.081</td>
<td>0.001</td>
</tr>
<tr>
<td>TOLUENE (Methylbenzene)</td>
<td>&gt;99%</td>
<td>0.078</td>
<td>0.001</td>
</tr>
<tr>
<td>2,4,5-TP (Silvex)</td>
<td>99%</td>
<td>0.270</td>
<td>0.0016</td>
</tr>
<tr>
<td>TRIBROMOCACETIC ACID</td>
<td>95%</td>
<td>0.042</td>
<td>0.001</td>
</tr>
<tr>
<td>1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)</td>
<td>&gt;99%</td>
<td>0.160</td>
<td>0.0005</td>
</tr>
<tr>
<td>1,1,1-TRICHLOROETHANE (1,1,1-TCA)</td>
<td>95%</td>
<td>0.084</td>
<td>0.0046</td>
</tr>
<tr>
<td>1,1,2-TRICHLOROETHANE</td>
<td>&gt;99%</td>
<td>0.150</td>
<td>0.0005</td>
</tr>
<tr>
<td>TRICHLOROETHYLENE (TCE)</td>
<td>&gt;99%</td>
<td>0.180</td>
<td>0.0010</td>
</tr>
<tr>
<td>TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)</td>
<td>&gt;99.8%</td>
<td>0.300 +/- 0.30</td>
<td>0.015</td>
</tr>
<tr>
<td>Unsym-trichlorobenzene (see 1,2,4-TRICHLOROBENZENE)</td>
<td>&gt;99%</td>
<td>0.160</td>
<td>0.0005</td>
</tr>
<tr>
<td>Vinylbenzene (see STYRENE)</td>
<td>&gt;99%</td>
<td>0.150</td>
<td>0.0005</td>
</tr>
<tr>
<td>XYLENES (TOTAL)</td>
<td>&gt;99%</td>
<td>0.070</td>
<td>0.001</td>
</tr>
</tbody>
</table>
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 just few of the items we have to offer. Visit our website 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.

**VOC Filter Replacement Kit (5 pack)**

Compatible with Watts Premier Reverse Osmosis and water filtration systems. These filters provide an extra level of filtration by allowing for more contact between the carbon media and your water.

Part No.  500124  \( \* \$ 42.95/Kit \)

**50 GPD Membrane**

Compatible with Watts Premier Reverse Osmosis systems, this 50 GPD membrane generates a greater amount of water per day for your RO system. Good application for households with higher levels of Nitrites & Nitrates. Contact Watts Premier if you are in need of a Nitrite/Nitrate test kit.

Part No. 110019 (50 GPD Membrane)  \( \* \$ 80.95/ea \)

**3/8” Ice Maker Kit for RO and Filtration**

3/8 inch connection includes 30 feet tubing, ball valve, and fittings.

Part No.  500102  \( \* \$ 21.95/ea \)

**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.

Part No. 500800  \( \* \$ 229.99 each \)

**PERMEATE PUMP KIT**

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
- Lowers “TDS creep”
- Reduces waste water by as much as 80%
- NSF approved (Standard 58)

Part No.  560041  \( \* \$ 65.95/ea \)

*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 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 *$42.95/ea
Replacement filter Part No. 304007 *$ 4.50/ea

Watts Premier Ice Maker Filter Kit
High efficiency replaceable filter that can last up to 5 years or 20,000 gallons. Perfect for residential and commercial ice makers as well as refrigerators, drinking fountains, coffee & tea brewers, motor homes and campers. Reduces chlorine taste and odor.
Part No. 500318 *$32.95/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 a pressure regulator to prevent damage to appliances.
Part No. 261003 *$11.50/ea

Pocket Total Dissolved Solids (TDS) Monitor
Test water electronically to verify reverse osmosis membrane effectiveness. Carrying case included.
Part No. 273001 *$39.95/ea

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.
Part No. 116091 - Chrome (Non-Monitored) *$47.95 each
116095 - Brushed Nickel (Non-Monitored) *$52.95 each
116094 - Chrome (Monitored) *$57.95 each
116093 - Brushed Nickel (Monitored) *$62.95 each

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

Special Chlorgon & KDF media – More effective than 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.
- Iron oxide (rust water)
- Dirt, sediment
- Odors

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

Part No. 107070 WHITE *$38.95
Part No. 107091 CHROME *$44.95
Part No. 107092 GOLD *$44.95

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

Part No. 107095 CHROME *$55.95

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

Part No. 107098 White/Chrome *$39.95
Part No. 107099 White/Gold *$39.95

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

1. Online at www.wattspremier.com
   Register your product online and receive a 5% discount on your next online 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.

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: __________ - __________

Watts Premier, Inc.
Phone: 800-752-5582  8716 W Ludlow Drive Suite #1
www.wattspremier.com  Peoria, AZ 85381
Fax: 623-866-5666
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

Serial No. ____________________

Date of Purchase: __________ Date of Install: __________ Installed by: ________________

<table>
<thead>
<tr>
<th>Date</th>
<th>1st stage Sediment (6 months)</th>
<th>2nd stage Carbon (6 months)</th>
<th>4th stage VOC Block (1 year)</th>
<th>3rd stage Membrane (2-5 years)</th>
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**NOTES:**

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Limited Warranty

What your Warranty Covers:
If any part of your WATTS PREMIER Reverse Osmosis System is defective in workmanship (excluding replaceable filters and membranes), return unit after obtaining a return authorization (see below), less tank, within 3 years 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 documentation and a return authorization number. Once the return authorization number has been created, ship your Reverse Osmosis unit (less tank) to our factory, freight and insurance prepaid, with proof of date of original purchase. Include a note stating the problem experienced and include your name, address and your return authorization number. No returns will be accepted with out the proper return authorization number. 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 Reverse Osmosis System must be hooked up to a potable municipal or well cold water supply.
2. The hardness of the water should not exceed 10 grains per gallon, or 170 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.