



PURIST

ADVANCED COUNTERTOP DRINKING WATER APPLIANCE



Installation, Operation and Maintenance Manual

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INSTALLATION, OPERATION AND MAINTENANCE MANUAL

This manual provides the necessary consumer information for the hook-up, daily use and maintenance of the **PURIST** countertop drinking water appliance. Refer to enclosed warranty and operating parameters to ensure proper use with your water supply. Save manual for future reference. **Please read carefully before proceeding with installation.** Your failure to follow the instructions or operating parameters may lead to the product's failure and possible damage to property. Refer to enclosed warranty and operating parameters to ensure proper use with your water supply.

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For all customer service inquiries see page 23.

PURIST

ADVANCED COUNTERTOP DRINKING WATER APPLIANCE



CONGRATULATIONS! You are about to enjoy the benefits of the most effective and versatile drinking water appliance available today...

As the **PURIST** name suggests, the scientifically based, no-frills design of this Point of Use (POU) drinking water appliance is responsible for its extraordinary performance and versatility. When it comes to significantly reducing virtually all categories of tap water contaminants, the **PURIST** is without equal. Discriminating consumers and those who are seeking health, wellness and healing, will appreciate the **PURIST** in supporting their goals.

The **PURIST** offers a four-stage (three cartridge) water purification system that incorporates the following essential water treatment technologies to achieve the first responsibility of any drinking water system – a significant reduction of every category of tap water impurity and contaminant.

- Sediment particle filtration to 5 microns (#1 PREFILTER)
- Activated carbon (AC) adsorption and REDOX (#1 PREFILTER)
- Reverse Osmosis (RO) membrane separation (#2 RO MEMBRANE)
- Coconut-shell activated carbon (AC) adsorption (#3 POSTFILTER)

The **PURIST** also incorporates two electronic monitors to provide valuable information to the user. One *advises* when to replace the filters and RO membrane using red, yellow and green LED's. The other digitally displays the actual *performance* of **PURIST's** key component, the RO membrane.

The **PURIST** does not incorporate any storage tank, which assures a consistently higher standard of chemical and biological purity than other conventional systems using advanced RO and AC technology. We consider this feature an *essential* benefit to those who may already be immuno-compromised, especially infants, the elderly and those diagnosed auto-immune diseases.

To protect the exceptional purity of the water processed by the **PURIST** we recommend it be stored exclusively in glass containers. For longer-term storage we advise that the water be refrigerated until the day of use.

The **PURIST** can also be supplied with an optional pump & emergency kit that enables it to treat non-pressurized sources of water (e.g. a swimming pool). This makes the **PURIST** suitable for emergency and survival situations (www.purative.com).

GENERAL INFORMATION AND COMPONENT IDENTIFICATION



Fig. 1. Photo of PURIST with Parts

Unpack the PURIST and Check Parts (Fig. 1)

If you notice any visible damage to the shipping container, please notify the shipper and the person/company from whom you purchased your **PURIST** system. It is helpful to take a picture of the damaged box.

Compare parts found in the box with the photo above and/or the parts list at the back of the manual. If any parts are missing or damaged, please notify Purative Customer Service at support@purative.com.

Lifting and Moving the PURIST

Always lift the **PURIST** appliance with both hands using the indentations in the gray base. Do not attempt to lift the unit from the cover itself or the cover latches. This may cause the premature unlocking of the cover latches, leading to damage.



Fig. 2a. Press on Both Latches

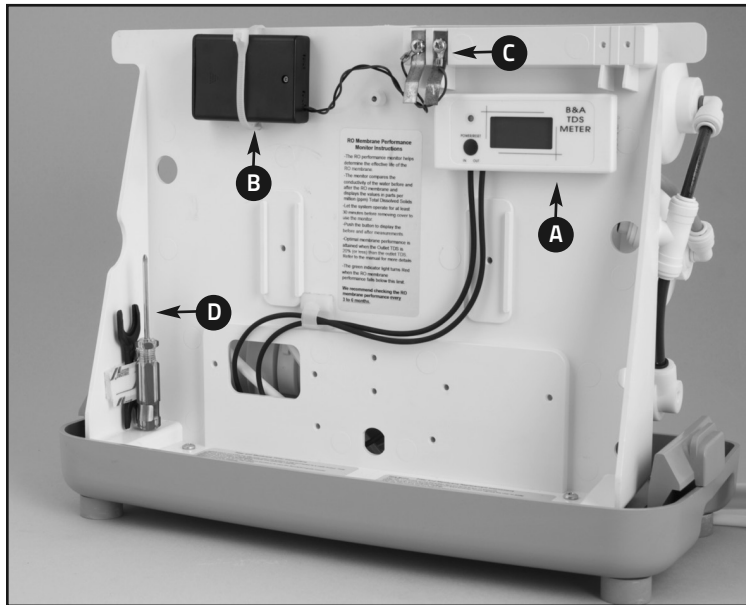


Fig. 2b. Lift Cover Straight Up

Removing the PURIST Cover (Fig. 2a, 2b)

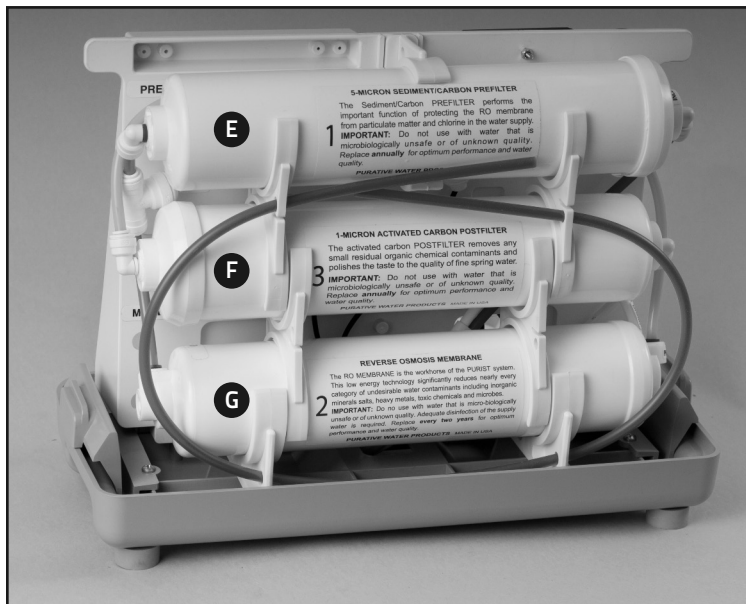
Firmly and simultaneously press in on *both* latches located at each end of the base and lift the cover straight up and off. Set the cover aside on the counter. Remove the cardboard spacer and store with the original box. To replace the cover, place it over the base assembly (making sure it is aligned properly with the base) and press down firmly until the latches snap shut on both sides.

BECOMING FAMILIAR WITH THE COMPONENTS



- A: Water Quality Monitor**
- B: Battery Holder**
- C: Battery Contacts**
- D: Tools**

Fig. 3a. Under the Cover (Front)



- E: Prefilter #1 Cartridge**
- F: Postfilter #3 Cartridge**
- G: RO Membrane #2 Cartridge**

Fig. 3b. Under the Cover (Back)

REQUIRED OPERATING CONDITIONS – WATER SUPPLY

Water Pressure: 40 psi to 85 psi (2.7 to 5.8 BAR)

Water pressure determines pure water production rate. Higher pressure - more water production. Lower pressure - less water production.

Water Temperature: 40° F to 85°F (4°C to 30°C)

Water temperature determines pure water production rate. Higher temperature – more water production. Lower temperature – less water production. **CAUTION:** Water temperature exceeding 110° F (43° C) will damage the membrane.

IMPORTANT! The **PURIST** unit must NOT be exposed to freezing temperatures. Freezing of the filter and membrane components will result in permanent damage and water leakage. Evidence of freezing will void the warranty.

Total Dissolved Solids (TDS): Tap water supplied to the PURIST should be *less than* 2000 ppm (mg/l) TDS.

- **NOTE:** Virtually all US public water supplies in the US are less than 1000 ppm TDS
- **NOTE:** Higher TDS water supplies (>1000 ppm) require higher water pressure to give satisfactory performance from the RO membrane. The pressure should be at least 30 psi (1.7 BAR) greater than the TDS/100*.
- **NOTE:** The tap water TDS is the reading on the left-side of the Water Quality Monitor display.

Water Iron Level: Less than 0.3 ppm (mg/l) as total iron.

Water Microbial Quality: Source must be a public *potable* water supply free of microbial contamination. For survival/emergency use on water of unknown microbiological, follow the instructions that are included in the optional pump kit.

PERFORMANCE SPECIFICATIONS

Pure Water Production Rate: Nominally, 1 to 2 gallons per hour (25 to 40 gallons in a 24 hour period) at typical municipal water supply pressures and temperatures (e.g. 40 - 75 psi water pressure and 40 - 85°F (25°C) water temperature. (See **REQUIRED OPERATING CONDITIONS** above for performance effects at different pressures and temperatures)

Water Purity: The **PURIST's** superior combination of water treatment technologies is unmatched for producing drinking water free of harmful levels of contaminants. Virtually every category (heavy metals, fluoride, pesticides, hydrocarbons, disinfection by-products (DBP's), radionuclides, etc.) is significantly reduced by the **PURIST's** proven combination of technologies.

Membrane Rinse Water Flow: The RO rinse water performs the critical function of continuously transporting impurities away from the surface of the membrane so it remains clean and effective for a long period of time (typically two or more years). This is one of the great advantages of RO technology. The rinse water flows into the sink drain from the outlet on the Quick Connect (QC) Faucet Attachment (see Fig. 4) at the rate of about 3 to 6 gallons per hour depending on water pressure.

- **NOTE:** For the conservation-minded, the rinse water usage can easily be compensated by incorporating inexpensive water reduction measures such as faucet and shower restrictors and toilet dams, available on the Internet.

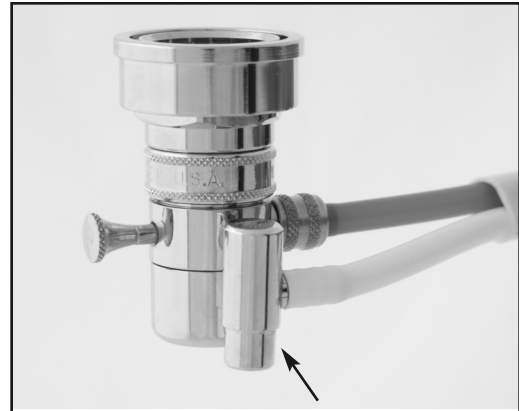


Fig. 4 Rinse Water Outlet

COMPONENT AND FEATURE DESCRIPTION

The main components the user will interact with are briefly described in this section. A replacement parts list can be found at the back of the manual.

PURIST Quick Connect (QC) Aerator and Adapters (Fig. 5)
This special PURIST QC Aerator (QC-M) replaces the existing aerator on your kitchen faucet. It allows the QC Faucet Attachment (Fig. 6) to easily connect and release from the end of your faucet. A selection of various optional adapters are provided which allow connecting the QC Aerator to various faucet threads.

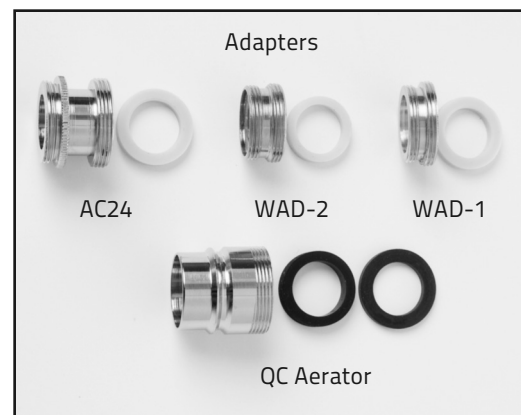


Fig. 5. QC Aerator and Adapters

Snap Coupler (Fig. 6)

This convenient attachment allows the user to easily connect the **PURIST** appliance whenever pure water is needed. **PURIST** can even be taken with you to a vacation home – just make sure you have an extra **PURIST** aerator kit with you (See spare parts list to order).

Tap Water Diverter Valve (Fig. 6)

This valve is built into the QC Faucet Attachment. When pulled out fully, water flows into the **PURIST** system.

Rinse Water Outlet (Fig. 6)

This outlet port is attached to the side of the QC Faucet Attachment and allows the RO membrane rinse water to flow into the sink. **Make sure the drain is not blocked** when using the **PURIST**. This rinse water serves the critical function of removing impurities and contaminants from the RO membrane so you are not wasting water any more than when you shower or wash clothes.

Pure Water Outlet: The Bottle-Clip (Fig. 7)

The special Bottle-Clip secures the pure water outlet to the top edge of a clean *glass* or non-toxic (BPA-free) plastic carafe, bottle, jar or cup, **which must be placed inside of the sink when filling**. Use the convenient rotating coupling to adjust the clip position. There is also a protective blue sleeve to keep the pure water outlet sanitary when not in use. Take care to keep this tube away from dirt and contamination and regularly rinse it under a stream of hot water.

Maintenance Indicator

(Filter and Membrane Change Indicator) (Fig. 8)

This electronic indicator is located on the upper right of the **PURIST** cover and notifies the user of the filter and membrane replacement status with flashing green, yellow and red LEDs. Since the indicator is based solely on the elapsed time of service it should serve *only* as a general guideline because the water conditions can vary so widely depending on location. On most large modern municipal water supplies the elapsed time settings are very conservative and both the filters and RO membrane can maintain their effectiveness up to 50% longer than the programmed indicator settings.

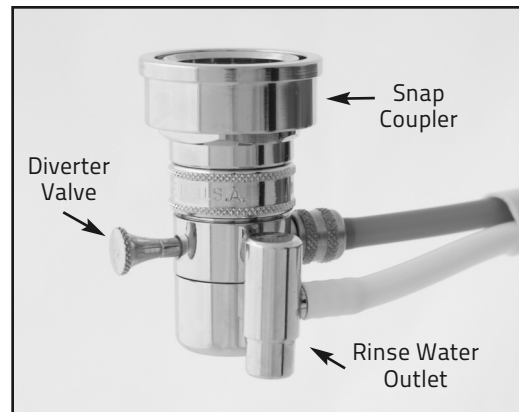


Fig. 6. QC Faucet Attachment with Diverter Valve

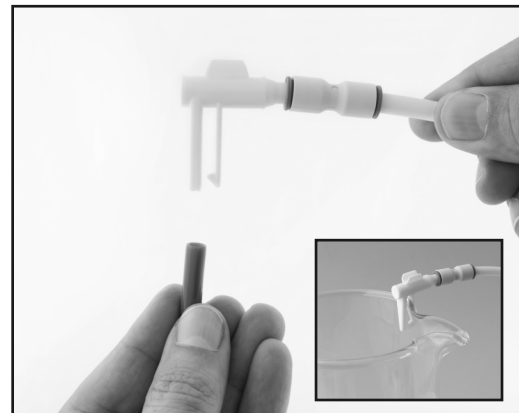


Fig 7. Pure Water Bottle-Clip with Blue Sleeve



Fig 8. Maintenance Indicator (Filter and Membrane Change Indicator)

Water Quality Monitor (Fig. 9)

The **PURIST** incorporates an advanced digital water quality monitor that *compares* the Total Dissolved Solids (TDS) of the tap water IN with the processed water OUT. No other competitive product includes this exacting tool for measuring the RO membrane performance. Furthermore, this monitor can serve as a true measure of when to change the RO membrane, which can last up to 50% longer than the two-year setting of the Filter and Membrane Change Indicator.



Fig. 9. Water Quality Monitor

SET-UP AND OPERATING INSTRUCTIONS



Fig. 10. Typical PURIST Set-Up at Kitchen Sink

IMPORTANT: Always lift the **PURIST** with both hands from the handholds in the base. Do not attempt to lift the unit from the upper part of the cover or the latches. This may cause the premature release of the cover latches resulting in damage.

Countertop Placement. Place your **PURIST** system in a convenient spot on your kitchen counter to the left or right of the sink so the QC Attachment hose does not restrict the kitchen faucet's range of motion.

Install the Special PURIST QC Aerator (Figs. 11, 12)

1. Remove the regular aerator from the end of your faucet. (You may need to use a pair of pliers with the jaws wrapped with tape).
2. Determine if any of the optional adapters (WAD-1, WAD-2 and AC-24) are required to attach the QC Aerator (QC-M), which has threads on both the outside and inside to accommodate different faucet designs. There are two black washers, one thin and one thick. If you use the internal threads you will only use the thin black washer. If you use the external threads you will use both the thick and thin washers. With the necessary adapter and washer(s) in place, thread on the QC Aerator to the right (clockwise viewed from below) until it is tight. You may need to use a pair of pliers (jaws wrapped with tape) to make a secure seal. Occasionally the threads on a faucet are worn and may drip water. If this happens try wrapping some Teflon tape on the threads and remounting the aerator.

- **NOTE:** It is rare that none of the adapters supplied fit your faucet. However, there are situations that may need extra effort. One requires some other less common aerator adapter. The other is where the



Fig. 11. PURIST QC Aerator



Fig. 12. PURIST QC Aerator

faucet aerator is attached to a pull-out sprayer that is built into the faucet spout. If the pull-out sprayer cannot accommodate the QC Aerator, the only options are to a) relocate the **PURIST** to another sink faucet (such as a wet-bar, laundry sink or bathroom), b) replace the faucet with a conventional one with a separate sprayer or c) install an additional single-handle, single-temperature faucet on the sink or counter exclusively for the **PURIST** (contact support@purative.com for recommendations).

First Time Start Up (Fig. 13)

1. Grasp the QC Faucet Attachment at the end of the hose in the palm of your hand, hold down the Snap Coupler and push it onto the QC Aerator. Release the Snap Coupler and it should remain securely attached to the QC aerator.
2. Remove the blue plastic sleeve from the end of the Bottle-Clip (failure to do this will result in pressure building in the tube and ejecting the sleeve). Place the Bottle-Clip on the edge of a container and **place the container in the sink**. (See Fig. 10 above).
3. Slowly turn on the COLD water (Hot water can damage the **PURIST**). You will observe tap water flowing from the bottom of the QC Faucet Attachment. Now, carefully pull out the Diverter Valve stem about 1/2" and hold while water starts flowing into the **PURIST**. Once the **PURIST** is pressurized you can release the Diverter Valve stem and it will remain in the "out" position.
 - **CAUTION:** Once you have pulled the stem out, DO NOT force it back in while the **PURIST** is operating, Always turn off the COLD water first and allow the stem to retract by itself.
4. Allow the **PURIST** to operate for at least one-hour. It's OK if the container overflows into the sink. Do not consume this water but it can be used for watering plants and household cleaning tasks.
 - **NOTE:** This procedure is *only required* for the initial start-up of a new **PURIST** and whenever new cartridges are installed.



Fig. 13. Pull out Diverter Valve Stem to start cold water flow. **Never push** in when the faucet is ON.

Using the Water Quality Monitor (Fig. 14)

With the **PURIST** still operating for at least one-hour, remove the cover and set aside. Momentarily press the red button to activate the Water Quality Monitor. Immediately two numbers will be displayed – the TDS of your tap water on the left ("Before") and the TDS of the **PURIST** pure water on the right ("After"). If the values represent *greater than 80%* TDS rejection the green light will illuminate. With daily operation we recommend the Water Quality Monitor be checked about every 3-4 months to verify RO Membrane Performance. (See APPENDIX to determine how to calculate the exact TDS rejection.)



Fig. 14. Water Quality Monitor "ON" Button, Green LED and TDS Readings

AWAKEN the Maintenance Indicator (Filter and Membrane Change Indicator) (Fig. 15)

1. Carefully put the **PURIST** cover back in place, making sure to align it properly.
2. The **PURIST** is shipped with the Filter and Membrane Change Indicator in the SLEEP MODE. Awaken (AWAKE MODE) the Indicator by inserting the end of the Activation Tool (supplied in the parts bag or use a ball-point pen) into the hole above the words "RESET" and quickly pressing *once*. The three lights will flash in succession, then the green light will flash every 10 seconds for the next 11 months. After 11 months the yellow light will flash to notify the user that replacement cartridges should be on hand for replacement in 30 days. (See APPENDIX for more detailed information)

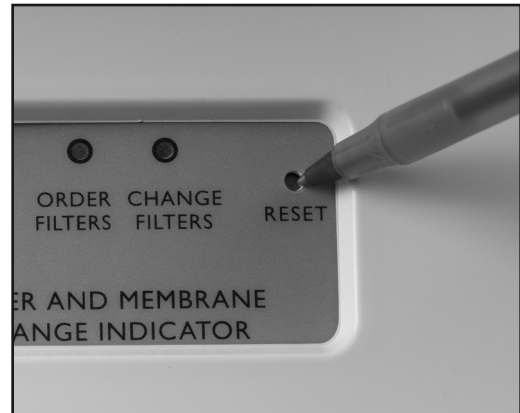


Fig. 15. Awaken the Maintenance Indicator (use activation tool provided or ball point pen).

Daily Use

For regular daily usage, allow the processed water to flow into the sink for a few minutes before collecting water. This assures the very highest quality drinking water. Securely attach the Bottle-Clip to a suitable container, preferably glass. **Remember, always place the container in an open sink with the drain unobstructed.** When you are finished operating the **PURIST**, replace the protective sleeve on the end of the Bottle-Clip to keep it sanitary.

MAINTENANCE AND SERVICING

Exterior and Interior Surface Cleaning

Minimal work is required to keep the **PURIST** in perfect operating condition. As with any home appliance we recommend keeping the unit clean both externally and internally. Use a clean soft non-scratch cloth and a mild, non-toxic household surface cleaner to wipe down the exterior surfaces. The internal surfaces and components remain protected most of the time. When the cover is removed simply spot clean any dust that may have accumulated. If for any reason moisture accumulates inside the **PURIST**, always dry the area thoroughly and inspect for leaks.

#1 PREFILTER and #3 POSTFILTER Cartridge Replacement – Yearly Maintenance* (Figs. 16, 17, 18, 19)

When the red indicator light is flashing, it is time to replace your #1 PREFILTER and #3 POSTFILTER cartridges so you can continue to enjoy the highest quality drinking water possible.

* The actual usable life of the #1 PREFILTER and #3 POSTFILTER cartridges is impossible to determine accurately due to the variations of the public water supply. Modern municipal water plants typically provide water that is clean enough to allow these cartridges to last longer than the 12 month setting programmed into the Maintenance Maintenance Indicator* (see APPENDIX).

Prefilter and Postfilter Cartridge Change Procedure (top two cartridges)

1. Disconnect the QC Faucet Attachment from the faucet; place in the sink to catch water that may drain out.
 2. Remove the **PURIST** cover.
 3. Remove the ends of the red RO membrane fast-flush tubing from the upper cartridge clips.
 4. Access the cartridges. The top cartridge is the #1 PREFILTER and the second is the #3 POSTFILTER (The bottom cartridge is the #2 RO MEMBRANE).
 5. With the cartridges still held in place by the mounting clips, you are now ready to remove the fittings from the cartridges of #1 PREFILTER and #3 POSTFILTER at each filter end. Firmly press the small end (flat side) of the black plastic tubing release tool (located inside the front of the **PURIST**) *against* the outermost side of the blue and white tube-keepers while carefully pulling the plastic elbow fitting from the cartridge end. Repeat this procedure for the top two cartridges (4 fittings).
- **NOTE:** You may also press in the tube-keepers with your finger-tip. **NEVER** slide the tool *behind* the tube-keeper while pulling the elbow fitting out as this will damage it and it will have to be replaced.

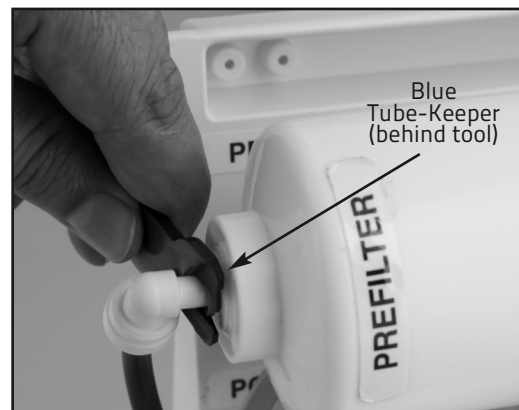


Fig. 16. Use tool to press against blue Tube-Keeper and then gently pull elbow.

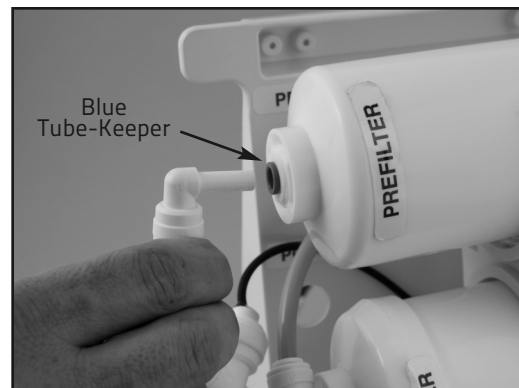


Fig. 17. Disconnect fitting from cartridge

6. Firmly pull the top #1 PREFILTER cartridge towards you to disengage it from the top clip and then remove it entirely from the next lower set of clips. Now remove this set of clips and set aside.
7. Remove the middle #3 POSTFILTER cartridge from the next set of clips.
8. Install a new #3 POSTFILTER cartridge in the open set of clips.
9. Mount the available set of clips onto the #3 POST-FILTER cartridge
10. Install the new #1 PREFILTER cartridge on the open set of clips.
11. Reconnect the tubing connection to each cartridge by pressing the elbow fitting into the appropriate openings of the new cartridges. Elbow fittings must be fully inserted into cartridges.
12. Re-insert the ends of the red RO membrane fast-flush tubing into the upper clips.
13. With the cover still removed, connect the **PURIST** to the faucet and turn on the water. Allow the unit to operate for at least 15 minutes to eliminate trapped air and then check for leaks around the connections. If there are any leaks, try slightly rotating the plastic elbow back and forth to readjust the seal. If that fails, turn off the water, allow the **PURIST** to depressurize, remove the leaking elbow and repeat step #10.



Fig. 18. Disengage top cartridge from clip



Fig. 19. Remove top cartridge from mounting clips

14. Replace the **PURIST** cover.
15. First, **AWAKEN** the Maintenance Indicator by *quickly* pressing the RESET button *once*. Then, **RESET** the Maintenance Indicator by pressing and *holding* the reset button for at least three seconds. The red LED will light followed by the green LED flashing every 10 seconds.

#2 RO MEMBRANE Cartridge Replacement – Two-Year Maintenance* (Fig. 20)

At the heart of the **PURIST** is an NSF Certified Reverse Osmosis membrane component. It has the unique advantage of *rejecting* impurities and contaminants and *rinsing* them away to the drain. This is the true benefit of the RO process and the primary reason it can remain effective for two or more years.

* Replacement of the #2 RO MEMBRANE is based on a two-year schedule as indicated by the Maintenance Indicator on the front cover. In other words, the #2 RO MEMBRANE should be changed *every other* year unless the user considers extending the RO Membrane life described in the APPENDIX.



Fig. 20. Disconnecting Tubing from the RO Membrane

RO Membrane Cartridge Change Procedure (Bottom cartridge)

1. Because the prefilter and postfilter are always changed whenever the RO Membrane is replaced, simply continue from steps #1 – 7 above.
2. Carefully remove the lower set of clips from the #2 RO MEMBRANE.
3. Firmly press the small end (flat side) of the tubing release tool (located inside the front of the **PURIST**) *against* the outermost side of the small red, white and gray tube-keepers while gently pulling out the corresponding orange, white and yellow tubing from each connection.
 - **NOTE:** You may also press in the tube-keeper with your finger. **NEVER** slide the tool *behind* the tube-keeper while pulling the tubing out as this could damage the tubing and it will have to be replaced.
7. Firmly pry the #2 RO MEMBRANE out of the two clips holding it onto the base. You may have to use a large screwdriver or piece of wood to serve as a lever. Be careful not to damage the base.
8. Install a new #2 RO MEMBRANE in the lower clips, taking note of the correct orientation.
9. Carefully attach the orange, white and yellow tubing in the corresponding cartridge connections, making sure the tubing is pushed in as far as possible.
10. Attach the clips (two pairs) to remount the two upper cartridges to the lower cartridge.
11. Re-insert the ends of the red RO membrane flush tubing into the upper clips.
12. With the cover still removed, connect the **PURIST** to the faucet and turn on the cold water. Allow the unit to operate for at least 15 minutes to eliminate trapped air and then check for leaks around the connections. If there are any leaks, try slightly rotating the plastic tubing back and forth in the connection to readjust the seal. If that fails, turn off the water, allow the appliance to depressurize, remove the leaking tubing and repeat step 9.
 - **NOTE:** If the leak cannot be stopped, cut 5/8" off the tubing end with a razor knife and re-insert tubing in connection. If the white "DRAIN" tubing is leaking, first pull out the yellow insert restrictor (use pliers if necessary), cut 5/8" off the white tubing end with a razor knife, reinsert the restrictor and reinsert tubing in the drain connection.

13. Replace the cover, reset the filter indicator by quickly pressing the RESET once.
14. Allow the **PURIST** to operate for at least one-hour. Do not consume this water but it can be used for watering plants and household cleaning tasks.

Enjoy great-tasting pure water until the next membrane change.

Maintenance Indicator (Filter and Membrane Change Indicator)

Battery Change (Figs. 21, 22)

The batteries should be changed whenever the #1 PREFILTER and #3 POSTFILTER are replaced (12 to 18 months). First, cut and remove the zip-tie around the battery case. Use the enclosed screwdriver to open the battery compartment to gain access to the batteries. Use three high-quality alkaline AA batteries. **CAUTION:** The batteries must be installed correctly as noted on the battery case or damage may occur to the circuit.



Fig. 21. Opening Battery Holder

Water Quality Monitor Battery Change (Fig. 23)

1. With the PURIST cover removed during a cartridge replacement, activate the monitor by pressing the red ON button. If the number displays are dim or there is no display, it is time to replace the battery.
2. Starting with the right end, pull the monitor from the Velcro attachment.
3. Remove the battery compartment located on the bottom by prying it out of the slot with a suitable tool.
4. Install a new CR2032 3V button battery in the compartment, making sure that the positive “+ side” is up. Note the molded image on the back of the monitor for reference.
5. Push the battery compartment back into the slot, making sure it is positioned as shown by the molded image.
6. Press the red ON button to confirm that the monitor is displaying the numbers clearly.



Fig. 22. Use Three AA Batteries

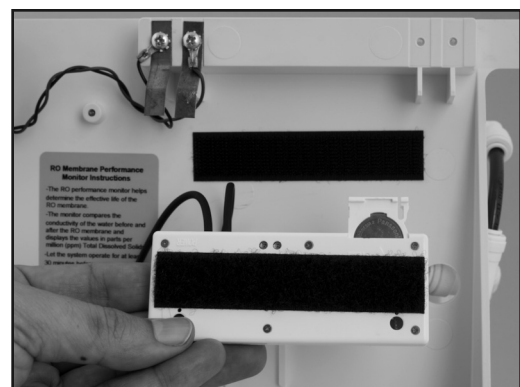


Fig. 23.

FREQUENTLY ASKED QUESTIONS

Q: What water supplies can the PURIST be used on?

A: While the **PURIST** is primarily designed for use on potable municipal water supplies (public tap water) it can also be used on private well systems. However, there are considerations that must be taken into account to assure long-term user satisfaction. These include:

- Is the pressure sufficient to produce enough water for daily use? We recommend at least 45 psi (3 Bar) although the **PURIST** will operate on as little as 30 psi (2 Bar) with reduced production.
- Are there any well water constituents that might impair the performance of the **PURIST** such as excessive levels of iron, manganese, H₂S (sulfur) and tannins? If there are contaminants they must be removed before the water is suitable for the **PURIST**. ANY LOSS OF PERFORMANCE DO TO THESE CONSTITUENTS IS NOT COVERED UNDER THE WARRANTY.
- Is there a presence of pathogenic microorganisms in the well water that exceeds EPA regulations? Federal law does not allow the **PURIST** to be recommended for consumer use on microbiologically contaminated water supplies.

Q: Can I use the PURIST if I have a water softener that uses salt?

A: Yes. In fact, the water softener provides a welcome measure of added protection for the RO membrane by reducing certain impurities such as hardness and iron. This will substantially extend the life of the RO membrane, which you can verify with the Water Quality Monitor.

Q: How can I use the PURIST in survival or emergency situations when the city water is turned off?

A: **Purative** offers an optional pump kit that provides pressure from any open vessel of water such as a bucket or a swimming pool. The pump connects to the **PURIST** with some simple modifications and will produce pure drinking water up to 50 gallons per day. Since open sources of water may be of unknown microbiological quality, instructions are provided to pre-disinfect the source water to assure that the **PURIST** water is always safe.

Q: Will I lose valuable minerals when I drink Reverse Osmosis water?

A: Most tap water does not contain a significant amount or a beneficial combination of minerals in the first place. Also, there is no technology that can magically leave in the "good" and take out the "bad" constituents. We obtain the majority of the *major* minerals from the foods and juices we consume. However, due to modern farming practices and food processing, most trace elements are no longer available in sufficient quantity or form in our foods to support optimal health. Complete "83 mineral and trace element" supplementation is therefore essential. The **Purative** approach is to remove as many contaminants as possible followed by re-mineralizing and molecular restructuring. Then if the user requires further health promoting enhancements they can elect to add alkaline buffering and/or active hydrogen anti-oxidizing tablets for a high negative ORP.

Q: How should I store my PURIST appliance when not in use for longer periods (> one month)?

A: The reverse osmosis membrane actually works better and lasts longer the more it is used, so operate it *at least* twice weekly even if the water is given away. When not in use for longer than a month, dry off the cover, replace the blue cap on the Bottle-Clip and store it in a cool, dry environment. If you need to

store the unit for even longer periods of time, remove all three cartridges and store in a refrigerator, making sure they cannot freeze.

Q: Should I store my PURIST water in the refrigerator?

The **PURIST** removes virtually all of the disinfectants used to inhibit bacterial growth in the city water pipes. If you are not going to use the **PURIST** water for more than a day, make sure that it is in a glass container and keep in the refrigerator to prevent harmless airborne bacteria from multiplying.

Q: Will hot water ruin the RO Membrane?

A: Hot water over 110° F will damage the RO Membrane in a fairly short time and result in a decline in the reduction of impurities. It will also weaken some of the plastic components that are under pressure and this may result in a failure and leak. Make sure you only use cold water with your **PURIST** appliance.

APPENDIX

Maintenance Indicator (Filter and Membrane Change Indicator) Operation

There are three operations associated with the Maintenance Indicator:

1. Sleep Mode: The **PURIST** is shipped in the SLEEP MODE. Whenever the cover is removed from the appliance the indicator goes into the SLEEP MODE and stops the filter and membrane timer. When the cover is replaced the indicator is ready to be put into the AWAKE mode.

2. Awake Mode: Insert the Activation Tool or ball-point pen into the hole marked "RESET" and quickly press *once* to awaken the indicator to start or resume timing. The indicator's three LED's (green, yellow, red) will flash once and then the green LED will continue to flash every 10 seconds for eleven (11) months. Then the yellow LED will begin to flash every 10 seconds for one month, prompting the user to purchase new cartridges. Finally, the red LED will begin to flash, indicating it is time to change filters (12 month) or filters and RO membrane (two years).

3. Reset: After replacing Filter Cartridges, RO Membrane Cartridge and Batteries, the Maintenance Indicator must be RESET. By pressing and holding the RESET button for at least three seconds, the Maintenance Indicator timer is reset to zero and a new 12-month timing cycle is initiated.

Batteries

(3) AA alkaline. Approximate battery life based on alkaline Duracell batteries = 3 months sleep mode + 16 months operation.

Extending the Service Life of #1 PREFILTER and #3 POSTFILTER up to 18 Months (Fig. 25)

If you are connected to a large modern city water supply, you can probably extend the service life of the prefilter and postfilter cartridges up to 18 months. Before you take this step, check the Water Quality Monitor TDS readings and confirm that the pure water TDS (right side of display) is less than 10% of the city water supply TDS (left side of display).



Fig. 24. Awaken the Filter and Membrane Change Indicator



Fig. 25. Water Quality Monitor Readings

Extending the Service Life of #2 RO MEMBRANE Using the Water Quality Monitor TDS Readings (Fig. 25)

The more accurate measure of when to change the #2 RO MEMBRANE is based on a comparison of the TDS readings of the tap water (IN) and the **PURIST** pure water (OUT). We suggest if the TDS OUT is *less than* 20% of the TDS IN then the membrane performance is excellent. If the TDS OUT is *greater than* 20% of the TDS IN then the membrane should be changed.

Example 1:

TDS IN reading = 350 ppm

TDS OUT reading = 25 ppm

25 = 7% of 350 (Excellent #2 RO MEMBRANE performance; continue use)

Example 2:

TDS IN reading = 350 ppm

TDS OUT reading = 75 ppm

75 = 21% of 350 (Marginal #2 RO MEMBRANE performance; change soon)

ADVANCED SERVICE

Monitoring Production Rate

The production rate of the **PURIST** is another factor the user can consider for changing the #2 RO MEMBRANE. After your **PURIST** is broken-in, measure how much time, in minutes, it takes to produce a specific volume of water such as a quart or liter. Record and save this information in your manual. Bear in mind that both the water pressure and the water temperature have a big influence on the production rate (lower pressure and lower temperature result in the less water production) so there is a significant variation from location to location. If there is a gradual decline in production rate over time and it cannot be attributed to lower pressure or water temperature then the membrane surface may be plugging up (fouling) due to the poor tap water quality. Change the membrane if the production rate is inadequate to meet your daily requirements.

Fast-Flushing the RO Membrane to Restore Performance

In anticipation that the **PURIST** being used on high sediment water supplies (e.g. potable rural water supplies and potable well water) a simple means of fast-flushing the RO membrane has been provided. This procedure can further extend the performance of the RO membrane. It is especially effective if the TDS of the pure water is still <10% of the TDS of the tap water but the production rate has noticeably decreased. A short piece of red-tubing is attached to the cartridge clips for this procedure. Simply remove it from the clips and follow these steps:

1. With the **PURIST** still connected to the faucet and the water turned off, move the **PURIST** to the other side of the sink so the back is facing you. Remove the cover and set aside.
2. Firmly press the small end (flat side) of the tubing release tool *against* the outermost side of the white "DRAIN" tube-keeper while gently pulling out the corresponding white tubing from the connection.
3. Insert one end of the red fast-flush tubing securely into the connection. Hold the free end into the sink and turn on the cold water fully. Allow water to rapidly flow through the RO membrane and dislodge sediment build-up.

4. Allow the water to flush the membrane for 3-5 minutes. You can help dislodge the sediment by firmly taping along the length of the RO membrane cartridge with a hard rubber mallet or the rubber coated grip of a hammer.
5. After the flushing step is completed, remove the red tubing and reinsert the white drain tubing.
6. Remount the red fast-flush tubing to the appropriate clips to store.

REPLACEMENT AND SPARE PARTS LIST WITH PART NUMBERS

PURIST Replacement Cartridges

	<u>Part #</u>
#1 Prefilter Cartridge (Fig. 3b)	P1-Prefilter
#3 Postfilter Cartridge (Fig. 3b)	P1-Postfilter
#2 RO Membrane Cartridge (Fig. 3b).....	P1-Membrane


PURIST Spare Parts

	<u>Part #</u>
Main hose assembly (Fig. 1)	P1-Hoseasy
Snap Coupler (Fig. 6).....	P1-Snapcoup
Aerator & Adapter Assortment (Fig. 1)	P1-Aeradapt
Pure Water Tubing with 4 Bottle-Clips (Fig. 1)	P1-Tubenclip
Cover Assembly with Maintenance Indicator (Fig. 1)	P1-Coverasy
Battery Pack (Fig. 3a)	P1-Bathold
Water Quality Monitor (Fig. 3a)	P1-Tdsmon
Tube Fitting Assortment with 4 Elbows Pkg	P1-Ftgpak
Owner's Manual	P1-Manual

EXCHANGES

If you feel there was an error in your order, please contact customer service at 1-866-257-8168 or email at support@purative.com within 7 calendar days for an approved RMA. We will attempt every effort to correct your order. If you were shipped an incorrect item, Water & Wellness Solutions Inc. / Purative will pay your return standard insured shipping. If you need to exchange your item because of a factory defect, please inform customer service within 10 calendar days. You will not be charged shipping for any defective items. If your order was damaged during delivery, (if damaged you must take a picture and contact your carrier (ex: UPS or FedEx) immediately to file a claim - we will settle the claim but you must open the claim), you must contact Water & Wellness Solutions, Inc. / Purative within 7 days of delivery by phone or email. Please make sure that you include your Proof of Purchase, quantity sent, any applicable shipping fees, and most importantly your name, shipping address phone number and email address. Delivery times may be shorter or longer depending on the current market situation and due to unexpected delays and circumstances beyond our control, i.e, weather, natural disasters, acts of God. We are not responsible for any special compensation due to extended delays.

SERVICE RECORD

DATE	#1 PREFILTER Cartridge Replace Every 12-18 mo.	#3 POSTFILTER Cartridge Replace Every 12-18 mo.	#2 RO MEMBRANE Cartridge Replace Every 24-36 mo.	WATER QUALITY MONITOR → TDS Before After	
					NOTES:

CONTACTING CUSTOMER SERVICE



Our customer service hours are Mon.-Fri. 9 am - 4 pm PST (*excluding holidays).

You can reach us by phone toll free at 1-866-257-8168 or email at support@purative.com.

WATER & WELLNESS SOLUTIONS, INC. / PURATIVE WATER SYSTEMS 5 YEAR LIMITED WARRANTY

BUYER MUST RETURN THE WARRANTY REGISTRATION CARD TO W&W AT THE ADDRESS WHICH APPEARS BELOW WITHIN 30 DAYS FROM THE DATE OF INSTALLATION TO VALIDATE WARRANTY.

Your drinking water system is warranted to the original owner to be free of defects in material and workmanship from the date of purchase as follows:

I. The Entire System (excluding Reverse Osmosis Membrane and disposable filter cartridges - see below)
For a period of ten years.

II. Reverse Osmosis (RO) Membrane

Warranted for defects in material and workmanship for a period of two years. Service life of RO membrane varies with local water conditions and is thus not warranted.

III. Disposable Filter Cartridge

Warranted for defects in material and workmanship for a period of two years. Service life of disposable filter cartridges varies with local water conditions and is thus not warranted.

IV. Booster Pump

Warranted for one year service life (if applicable).

V. Conditions of Warranty

a) SYSTEM MUST BE MAINTAINED AND SERVICED WITH APPROVED PWP REPLACEMENT PARTS AND FILTERS.

b) The performance and functioning of your drinking water system is directly related to the quality of the water being treated and the particular application in which it is used. PWP LIABILITY IS LIMITED TO THE COST OF REPAIR OR REPLACEMENT (AT OUR OPTION) OF ANY DEFECTIVE PART AND DOES NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

c) Systems must be installed and operated in accordance with manufacturer's recommended procedures and guidelines.

d) Warranty is void if product failure or damage results from freezing, neglect, misapplication, fouling with sediment or scale, or failure to operate the system in accordance with the instructions contained in the owners manual.

VI. What W&W Solutions, Inc. Will Do:

- a) W&WS will repair or replace (at our option) under this warranty any part which is discovered to be defective.
- b) If it is necessary to ship the product or any part thereof to W&WS or to an authorized distributor for service, buyer must pay any shipping and handling charges to destination.
- c) W&WS will pay return shipping charges in the U.S. for parts or products covered by the warranty.
- d) W&WS will furnish factory labor to make repairs to any parts or products returned to our factory under this warranty.

VII. What W&WS Does Not Do:

- a) W&WS will not pay for any repairs not specifically covered by this warranty or authorized by W&WS.
- b) W&WS will not be liable for any incidental or consequential damages caused by a failure of this product.

VIII. Obtaining Warranty Service

To obtain warranty service the buyer may:

- a) Contact the local W&WS authorized distributor who supplied the product; or
- b) Contact W&WS Customer Service at 1-866-257-8168 for a RMA # (return merchandise authorization) # and shipping instructions.

c) Contact:

Water & Wellness Solutions, Inc.
Customer Service
6900 Aragon Circle
Buena Park, CA 90620

IX. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE EXCLUSIVE REMEDY AND LIABILITY FOR CONSEQUENTIAL DAMAGES, UNDER ANY AND ALL WARRANTIES, ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.



Water & Wellness Solutions, Inc.

Fax 888-551-1298

support@purative.com

For all customer service inquiries see page 23.