

# W7

## Owner's Manual



Note: Please read these instructions before operating the unit. Unit appearance, specifications, etc. are subject to change without prior notice if necessary for improving unit performance. The rated voltage of this unit is AC 120 v/60 Hz only.

## Before You Begin

Please read the information contained in this manual carefully before proceeding with installation. Failure to do so can cause damage and may void the manufacturer's warranty.

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## CONDITIONS FOR USE

### Caution

DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION INSTALLED BEFORE THE SYSTEM.

THIS DRINKING WATER SYSTEM IS FOR USE ON POTABLE WATER SUPPLIES ONLY.

### Source Water Supply

Municipal/ Private: Potable Water

Working water pressure for M versions: 25 – 80 PSI (1.7 – 6.9 bar)

Working water pressure for RO versions: 60 – 70 PSI (4.1 – 4.8 bar)

Temperature: 40°–100° F (4°–38° C)

Do not allow exposure to temperature below 40°F (4.4° C)

### Warning

A pressure regulator must be installed before the system water inlet if the water pressure or any possible pressure spikes could exceed 80 PSI (5.5 bar) Failure to comply will void all warranties. The manufacturer accepts no liability for, and damage caused by excessive water pressure.

### Environmental Conditions

System should be installed in areas that are protected from severe environmental conditions. System is not manufactured or approved for Installation in areas that are exposed to direct sunlight, rain, snow or extreme temperature variation.

### Compliance

Installation and service must be performed by qualified personnel in compliance with all applicable local, state, federal and international codes.

### Note

Always check applicable plumbing codes before connecting to a water or drain line.

## RECEIVING YOUR EQUIPMENT

A common carrier will be delivering your Wellsys product.

Upon receipt, check the following:

1. Are all items still on the pallet?
2. Count the number of boxes you're signing for.
3. Is there any obvious damage to the product or the boxes?

If there are any discrepancies or obvious damage to the equipment or boxes, please note it on the "Bill of Lading" and/or refuse shipment.

After receiving the equipment from the carrier, remove packaging and inspect for any hidden freight damage. If freight damage has occurred, call the freight company and customer service (877) 386 - 0823 to report the damage. Photograph all damages to be submitted with claim.

**THIS MUST BE DONE WITHIN FIVE BUSINESS DAYS OF DELIVERY.** If not reported within five business days, Wellsys and/or carrier will not be responsible for replacement or repair.

## SAFETY PRECAUTIONS

### Warning

Do not install or use this drinking water system where the source water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system.

### Warning

A pressure regulator, such as a s low flow regulator, must be installed before the systems water inlet if the water pressure (including any possible spikes) could exceed 80 PSI (5.5 bar). Failure to comply will void all warranties. The manufacturer accepts no liability for damage caused by excessive water pressure.

### Warning

These systems are manufactured with 134A refrigerant. Repairs to the refrigeration system must be performed by a certified refrigeration technician only.

### Warning

To prevent damage fire or shock hazard, do not expose this system to rain or other extreme elements.

### Power System

Available in operating voltages of 120V 60Hz.

### Caution:

- To prevent electric shock and fire hazards, do not use with other than specified power source.
- Changes or modifications not approved by WELLSYS will void any product warranty.
- If system begins to leak, unplug, turn off water supply and call service center immediately.
- Before moving the system, disconnect power supply and wait for water to reach ambient temperature before draining.
- Hot water is extremely hot! Do Not dispense hot water directly to hands. Hot water may cause serious injury.
- If system will not be used for an extended period (5 days or longer), drain the system completely. Sanitize system prior to re-use. Should the system not perform as specified, unplug, turn off water supply and call the service center.
- Do not place any type of water container or heavy item on top of the system. Water may leak into the electrical system causing a fire hazard. Heavy items may fall off causing injury.

## INSTALLATION PROCEDURES

### Warning

Maximum water pressure (including any potential pressure spikes) of the water supply line to the system must not exceed 80 PSI (5.5 bar). Failure to comply will void the warranty. The manufacturer accepts no liability for damage caused by excessive water pressure.

1. Always check local plumbing codes before tapping into water supply line and drain line. Tap into the supply line with an approved connector.
2. Once the unit and filtration system flushing procedures are complete, determine the best installation location. Consider user convenience, electrical access, and water access. The unit performs optimally if within 20 feet of a cold-water supply line. Connect only to a cold-water supply. Do not install Feed Water Assembly on the Hot Water Line. Do not place unit where it will be exposed to rain, freezing temperatures or direct sunlight.
3. The rear of the unit should be installed at least 2" (5 cm) from any vertical surface to ensure proper air circulation.
4. Use only 1/4" OD copper or plastic tubing to connect your water supply and drain to the cooler water inlet and drain port. The inlet and drain ports are quick connect fittings. Units are shipped with plugs in each fitting. Remove the plugs prior to inserting water supply and drain lines. A water shut off valve is recommended between the inlet connection to the cooler and the water supply connection.
5. The W7 RO system requires a drain line for the RO membrane. The drain line should include an Air Gap and back flow restrictor. See diagram.
6. Check the available power supply to assure proper electrical service. In the U.S., the voltage specification is 110/120-volt 60 hertz. Voltage outside of this specification will affect the system performance
7. Water filtration system must be flushed in accordance with the instructions. Once operating, verify proper water production.
8. Be sure to dispense water from the hot tank prior to turning on the hot tank switch on the rear of the unit. When ready, turn the Heating System switch on the back of the unit to the "ON" position.
9. Perform final inspection of all installed water lines to ensure a leak free installation.
10. Instruct user on proper system operation.

## INSTALLATION PROCEDURES

### To install cold water:

Allow at least 30 minutes for adequate cooling, then select “Dispense”

### To install hot water:

Select “Hot Select”. The dispense light will change from blue to red. Then select “Dispense”.

### Note:

Hot water will require about 30 minutes to properly heat after the tank is full. Cold water will require about 1 hour to chill.

### Note:

Check UPC and Local Plumbing Codes to confirm that all connections are compliant.

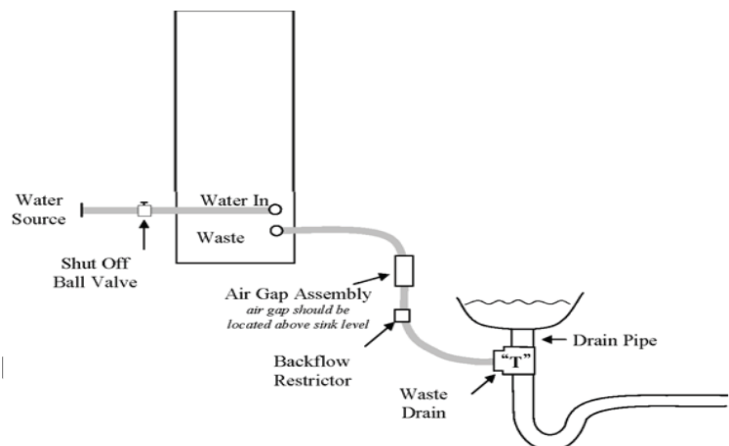
## FILTER FLUSHING PROCEDURES

### Note

All filters and RO membranes must be flushed sufficiently prior to installation. The ball valve located on the filter box will turn off the water to the filters and RO membrane. Turn to closed position before removing filters. Remember to open the valve after replacing filters to turn the water back on.

### Flushing the purification system for the W7-RO

1. Install the supply water line to “Water In” bulkhead fitting and water drain line to “RO Drain” bulkhead behind unit.
2. Do not plug the system into the AC socket. (No Power)
3. Remove lower front panel to access filters. Remove single screw behind drip tray, push down on the front panel and then gently pull the panel off.
4. Remove the sediment, carbon and post carbon filters and flush on a pre-flush station per the label instructions (Approx. 5 minutes)
5. Reinstall the sediment and carbon filters in their original places.
6. Connect the drain line to the bottom of the RO and then install the RO membrane in the vacant filter head.
7. Add a drain line to the output of the last filter head.
8. Turn on the water to the filters, plug the system in and let the water run for 30 minutes or greater.
9. Check the TDS
  - A. Prior to turning off the water supply, ensure:
    - I. For RO only systems, the TDS is .02% vs the tap water TDS (98% reduction).
    - II. For systems using the Mineral filter, the TDS will increase about 5-8 ppm higher than the output directly from the RO.
      - a. If you have issues achieving these reading, make sure you have 60-70 PSI feeding the system, the drain is not restricted in any way including a reversed check valve, the inline flow restrictor is in place and working properly and the unit is properly flushed. Please contact technical support for further assistance.
10. Filter flushing is now complete.
11. Replace lower front panel



### Note

Check UPC & Local Plumbing Codes to confirm that all connections are compliant.



## FILTER FLUSHING PROCEDURES

### Flushing the filtration system for the W7-UF

1. Install the supply water line to “Water In” bulkhead.
2. Do not plug the system into the AC socket. (No Power)
3. Remove lower front panel to access filters. Remove single screw behind drip tray, push down on the front panel and then gently pull the panel off.
4. Remove the sediment, carbon and post filters and flush in an external flush station for per the label instructions (Approx. 5 minutes)
5. Reinstall the filters in their original places.
6. Add a drain to the output of the last filter, turn the water on for 20-30 minutes. This will flush the UF membrane helps regulate the TDS and alkalinity in the post filters.
7. Replace lower front panel.

## FLUSHING THE ENTIRE SYSTEM

During the following steps you should be checking for any leaks, loose fittings, hot water, cold water and production rate. See next Section- Final inspection.

1. Turn the water to the system on, plug the system in and let the reservoir fill. RO systems will fill in one to two hours and UF systems will fill in 5 to 10 minutes.
2. Select “Dispense” to ensure water dispenses from cold, select “Hot Select” and ensure dispense light changes Red. Select “dispense” again while the dispense light is red and ensure hot water dispenses.
3. Drain cold water into container using the dispense nozzle. Activate dispense sensor until water flow ceases. Water will stop dispensing after 45 seconds. Active again until cold tank is drained.
4. Located behind the front panel is a hot tank drain that will drain the hot and about half of the cold tank. Holding a bucket under the drain, remove drain cap and allow the system to drain until water flow stops. Replace drain cap.
5. Repeat steps 1 through 4.

## FINAL INSPECTION

### Verify the following:

- There are no leaks or loose components.
- The hot water is over 160 °F.
- The cold water is below 50 °F.
- Confirm acceptable product water flow
- Wellsys W7 RO system should fill at a rate of about 5.1 L/ min.
  - **Note: Incoming water pressure and drain correctly functioning will have a significant impact on water flow.** The flow will also improve as the membrane breaks in.
- Wellsys W7 UF system should fill in about 5 - 10 min
- If the system is not filling, then check the water supply and make sure you did not trip the leak stop.
  - The leak stop can be reset by removing the cap below the unit and draining the water out.
- Ensure the system's exterior is clean and all components are in place.

### Other Items

- Once a system has been flushed it should remain plugged in and water should at a minimum be dispensed occasionally.
- Avoid storing in your vehicle or warehouse with residual water in the tank, this will result in a bad taste after installation.
- Always drain the system before moving it. It is not necessary to drain the Hot Tank completely through the rear Hot Tank drain if installing same day. Leaving water in the Hot Tan will allow turning on the Hot Tank immediately after installation of the system but if left overnight may result in a taste complaint that could even impact the cold tank.
- Never lay the system on its side.

## SYSTEM INSTRUCTIONS

### Sanitizing the cold tank:

It is strongly encouraged that all systems are sanitized using a mixture of Hydrogen Peroxide and water prior to placing in the field. Please follow the steps below to properly perform this important task.

1. Remove two screws on rear of top lid and remove top lid
2. Remove the cold tank lid.
3. Using ~3 % concentrate Hydrogen Peroxide, spray the inside of the tank, lid, floats, and all parts visible parts with a heavy mist of spray.
4. Using a clean towel or paper towel, wipe the Hydrogen Peroxide away from the surfaces.
5. Spray a light mist of spray again on all parts and put the lid back onto the unit.
6. Allow one tank full of water to full up and drain a single time.
7. It is strongly encouraged to perform this step on each annual service call as well.

## PREVENTATIVE MAINTENANCE

- Change filters according to the filter change schedule.
- Reset the filter alert using the instructions above.
- Descale the hot tank.
- Drain the system and use Hydrogen Peroxide to sanitize the system.
- Check all fittings for signs of scale or wear and replace as needed.
- Check condition of the float mechanisms. Pay special attention to ensure no water has infiltrated the float balls.
- Check solenoids for proper function. Dripping solenoids should be replaced.

Every five years, in addition to the above-mentioned tasks, perform the following:

- Replace all internal fittings and tubing.
- Replace LED UV bulb assembly.
- Replace solenoid.

## FILTER CHANGING PROCEDURE

1. Verify filter configuration required for servicing. Flush the appropriate filters prior to installation using a filter pre-flush station. Protect flushed filters from extreme cold temperatures and potential sources of contamination.
2. Dispose of replaced filters in accordance with local laws after removing filtration media. Filter housings may be recycled
3. Periodic replacement of the air filter is required. This should be done a minimum of every two years.

## SYSTEM INSPECTION

When changing filters or performing service, the following items should be completed:

- Visual Inspection
- Hose & fitting inspection
- Electrical inspection
- Pressure & flow test
- Filter monitoring system reset
- Gallon counter reset to zero. Refer to procedure below.
- Clean the exterior of system and condenser coils on rear of system.
- Temperature check (Cold water should be below 50 °F, Hot water should be above 160°F)
- TDS check
- Hot tank switch “On”
- Site is clean up

## SYSTEM SPECIFICATIONS

- Voltage:	115 VAC + 10 % / 1 P H / 60
- Hertz Size:	50.5”H x 14”W x 17”D
- Shipping Weight (Approx.) - No Hot:	90 lbs
- Shipping Weight (Approx.) - With Hot:	93 lbs
- Water Capacity:	2.2 gallons
- HP Compressor (Full Load):	1.1 Amps
- Compressor with Hot (Full Load):	5.5 Amps

### Note

Specifications subject to change without notice.

These systems have been manufactured with R 134a refrigerant.

### Warning

A pressure regulator, such as a s low f low regulator, must be installed in front of the system’s water inlet if the water pressure (including any possible pressure Spikes) could exceed 80 PSI (5.5 bar) Failure to comply will void warranty. WELLSYS accepts no liability for damage caused by excessive water pressure. Do not use this drinking water system where the source water is microbiologically unsafe or with water of unknown quality without adequate disinfecting before or after the system.

## PRODUCT LIMITED WARRANTY

### General Provision and Exclusions:

This warranty only applies in the fifty (50) United States and Canada.

This warranty does not apply, and no agreement, either written or implied, shall be applicable if the affixed serial number is removed, defaced or obliterated. This warranty does not apply to the filters or Ultra Violet system after exposure to water. Refer to service manual for filter requirements and expected performance. This warranty does not apply if parts used as original or replacement equipment, including filters, are not obtained or authorized through WELLSYS, and such unauthorized usage shall void this warranty. This warranty does not apply to any wetted parts that become inoperative due to lime, scale or other water quality conditions. This warranty does not apply to any machine or components that become inoperable due to a failure by Dealer/Distributor or the end-user to satisfy standards or regulations adopted by any governmental agency. This warranty does not cover performance, failure or damages of any part resulting from external causes such as alterations, abuse, misuse, misapplication, neglect, accident, installation, operation contrary to printed material, corrosion or acts of God.

This warranty only applies to the operative components of the machine and does not apply to the exterior shell or frame to which the shell is attached and the appearance of the machine.

This warranty and any applicable industry certifications for this machine are automatically voided if the machine is altered, modified, or combined with any other machine, equipment or device. Alteration or modification of the machine may cause serious flooding and/or hazardous electrical shock or fire. Except as set forth herein, WELLSYS makes no other warranty, guarantee or agreement expressed, implied or statutory, including any implied of merchantability or fitness for a particular purpose.

The foregoing is in lieu of all other agreements expired or statutory and all other obligations or liabilities of WELLSYS. WELLSYS does not assume or authorize any person to assume any obligations of liability in connection with this product. In no event will WELLSYS be liable for special, incidental, consequential or punitive damages, or for any delay in performance of this warranty agreement due to causes beyond its control.

### Export Warranty:

The WELLSYS export warranty shall apply to all area outside of the Continental limits of the United States and Canada. The export warranty shall mirror the domestic warranty set forth above in all respects except that a) the export warranty shall be limited to the Initial Term and there is no coverage for the additional warranty through the fifth year and b) the Dealer/Distributor shall be responsible for any and all transportation charges to implement the repairs.

**ALL WARRANTY REPAIRS SUBJECT TO PRIOR APPROVAL BY WELLSY' SERVICE DEPARTMENT IN ORDER TO VALIDATE THAT THE DEFECTIVE COMPONENT IS STILL UNDER WARRANTY.**



## WARRANTY PROCEDURE

Contact WELLSYS technical support.

Provide the following information:

- Serial number
- Failure
- Full details around failure
- Water pressure into the system
- Tap TDS
- TDS out of the cold and hot tanks
- Pictures

Depending on the situation, technical support may request more information.

Upon approval, WELLYS will process warranty credit or replacement part to be fulfilled. Dealer must maintain possession of the part or system until authorized to discard. Failure to do so may result in a denial of warranty.

For system credits, technical support will provide a credit number which may be given to the account management team on the next qualifying system order.

The account management team will then provide a system credit.

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