

ECOPURE®

Water Solved.®

Model EPW140

How to install, operate
and maintain your Demand
Controlled Water Softener
with Wi-Fi



PRODUCT REGISTRATION AND WARRANTY EXTENSION

Please register your product on
www.ecopure.com

See warranty page for
extended warranty details.



If you have any questions or concerns when
installing, operating or maintaining your water
softener, call our toll free number:

1-800-693-1138

or visit **www.ecopure.com**

When you call, please be prepared to provide
the model and serial number of your product,
found on the rating decal, located on the rim
below the salt lid hinges.

System tested and certified by NSF International
to NSF/ANSI/CAN Standard 372.



Manufactured and warranted by
Water Channel Partners
2805 Dodd Road, Suite 300
Eagan, MN 55121

7404247 (draft 12/3/25)

Installation and Operation Manual

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Dimensions

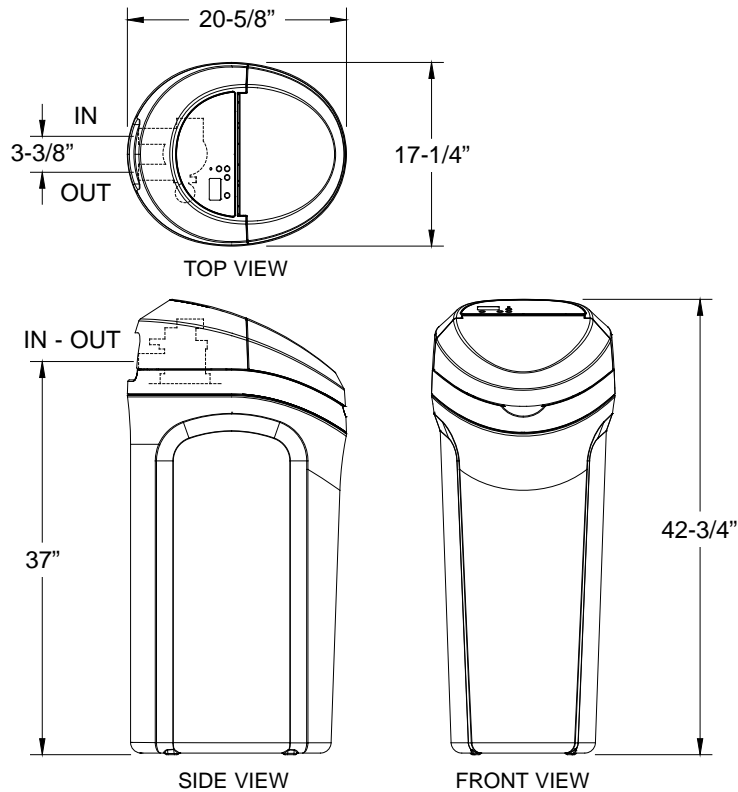


FIG. 1

Specifications & Performance Claims

	Model EPW140
Model Code	EP40
Water Used During Regeneration @ Minimum Salt Dose	2.3 gallons / 1,000 grains
Total Water Used Per Regeneration @ Maximum Salt Dose	31.6 gallons
Rated Service Flow Rate	7.8 gpm
Pressure Drop at Rated Service Flow	14.7 psig
Water Supply Max. Hardness	110 gpg
Water Supply Max. Clear Water Iron	9 ppm*
Water Pressure Limits (min. / max.)	20 - 125 psi**
Water and Ambient Temperature Limits (min. / max.)	40 - 120 °F
Minimum Water Supply Flow Rate	3 gpm
Maximum Drain Flow Rate	2.2 gpm

*Capacity to reduce clear water iron is substantiated by laboratory test data. State of Wisconsin requires additional treatment if water supply contains clear water iron exceeding 5 ppm.

**Canada working pressure limits: 1.4 - 7.0 kg/cm².

Variable Salt Dose: The salt dose is selected by the electronic controls at regeneration time based on the amount needed.

Questions? Call Toll Free 1-800-693-1138 or visit **www.ecopure.com**

When you call, please be prepared to provide the model and serial number, found on the rating decal, typically located on the rim below the salt lid hinges.

Before You Start

- The water softener requires a minimum water flow of 3 gallons per minute at the inlet. Maximum allowable inlet water pressure is 125 psi. If your house water pressure is over the maximum, install a pressure reducing valve in the water supply pipe to the system (Adding a pressure reducing valve may reduce the flow). If your home is equipped with a back flow preventer, an expansion tank must be installed in accordance with local codes and laws.
- The water softener works on 24V DC electrical power, supplied by a direct plug-in power supply (included). Be sure to use the included power supply and plug it into a nominal 120V, 60 Hz household outlet that is in a dry location only, grounded and properly protected by an overcurrent device such as a circuit breaker or fuse.
- Do not use this system to treat water that is microbiologically unsafe or of unknown quality without adequate disinfection upstream or downstream of the system.



European Directive 2002/96/EC requires all electrical and electronic equipment to be disposed of according to Waste Electrical and Electronic Equipment (WEEE) requirements. This directive or similar laws are in place nationally and can vary from region to region. Please refer to your state and local laws for proper disposal of this equipment.

In the state of Massachusetts: The Commonwealth of Massachusetts plumbing code 248-CMR shall be adhered to. A licensed plumber shall be used for this installation.

In the state of California: You must turn the Salt Efficiency Feature setting to ON. This may initiate more frequent recharges. However, it will operate at 4,000 grains per pound of salt or higher. To turn on the Salt Efficiency Feature, follow the instructions in the "Salt Efficiency" section of this manual.

Do not return the water softener to store.

If you have any questions, or there are missing parts or damage, please call **Toll Free 1-800-693-1138** or visit **www.ecopure.com**

When you call, please be prepared to provide the model and serial number, found on the rating decal, located on the rim below the salt lid hinges.

FCC NOTICE

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INDUSTRY CANADA NOTICE

This device complies with Industry Canada Standard RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Inspect Shipment

The parts required to assemble and install the water softener are included with the unit. Thoroughly check the water softener for possible shipping damage and parts loss. Also inspect and note any damage to the shipping carton.

Remove and discard (or recycle) all packing materials. To avoid loss of small parts, we suggest you keep the small parts in the parts bag until you are ready to use them.

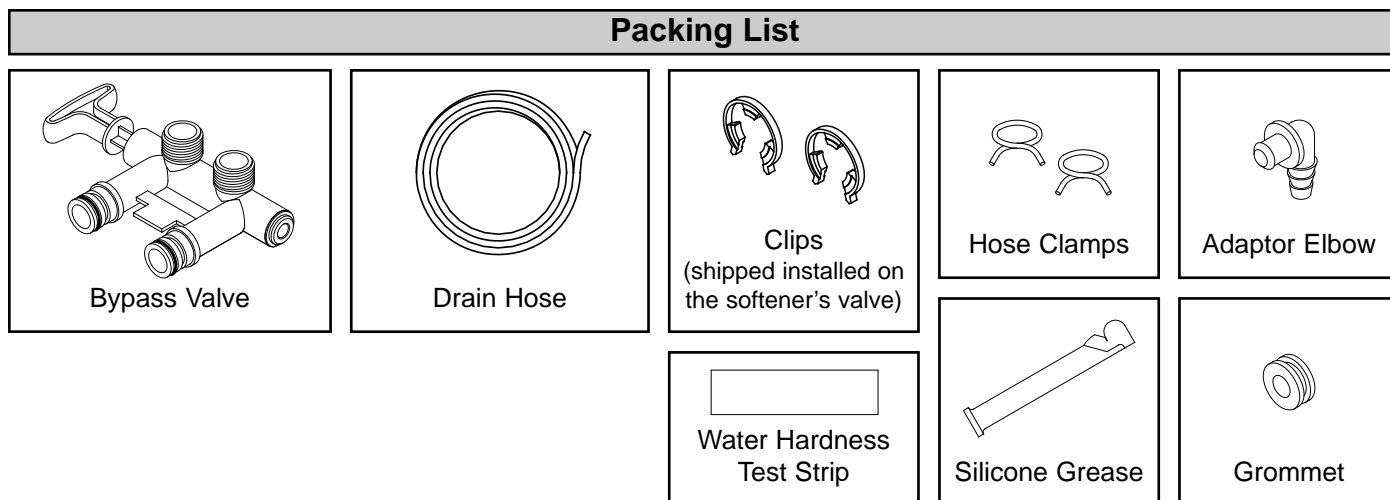


FIG. 2

Water Conditioning Information

IRON

Iron in water can cause stains on clothing and plumbing fixtures. It can negatively affect the taste of food, drinking water, and other beverages. Iron in water is measured in parts per million (ppm). The total* ppm of iron, and type or types*, is determined by chemical analysis. Four different types of iron in water are:

- Ferrous (clear water) iron
- Ferric (red water) iron
- Bacterial and organically bound iron
- Colloidal and inorganically bound iron (ferrous or ferric)

Ferrous (clear water) iron is soluble and dissolves in water. This water softener will reduce moderate amounts of this type of iron (see specifications).** Ferrous (clear water) iron is usually detected by taking a sample of water in a clear bottle or glass. Immediately after taking, the sample is clear. As the water sample stands, it gradually clouds and turns slightly yellow or brown as air oxidizes the iron. This usually occurs in 15 to 30 minutes.

When using the softener to reduce Ferrous (clear water) iron, add 5 grains to the hardness setting for every 1 ppm of Ferrous (clear water) iron. See "Set Water Hardness Number" section.

Ferric (red water), and bacterial and organically bound irons are insoluble. This water softener will not remove ferric or bacterial iron. This iron is visible

immediately when drawn from a faucet because it has oxidized before reaching the home. It appears as small cloudy yellow, orange, or reddish suspended particles. After the water stands for a period of time, the particles settle to the bottom of the container. Generally these irons are removed from water by filtration. Chlorination is also recommended for bacterial iron.

Colloidal and inorganically bound iron is of ferric or ferrous form that will not filter or exchange out of water. This water softener will not remove colloidal iron. In some instances, treatment may improve colloidal iron water. Colloidal iron water usually has a yellow appearance when drawn. After standing for several hours, the color persists and the iron does not settle, but remains suspended in the water.

SEDIMENT

Sediment is fine, foreign material particles suspended in water. This water softener will not remove sediment. This material is most often clay or silt. Extreme amounts of sediment may give the water a cloudy appearance. A sediment filter installed upstream of the water softener normally corrects this situation.

* Water may contain one or more of the four types of iron and any combination of these. Total iron is the sum of the contents.

** Capacity to reduce clear water iron is substantiated by laboratory test data.

Installation Requirements

LOCATION REQUIREMENTS

Consider all of the following when selecting an installation location for the water softener.

- Do not locate the water softener where freezing temperatures occur. Do not attempt to treat water over 120°F. Freezing temperatures or hot water damage voids the warranty.
- To condition all water in the home, install the water softener close to the water supply inlet, and upstream of all other plumbing connections, except outside water pipes. Outside faucets should remain on hard water to avoid wasting conditioned water and salt.
- A nearby drain is needed to carry away regeneration discharge (drain) water. Use a floor drain, laundry tub, sump, standpipe, or other options (check your local codes). See "Air Gap Requirements" and "Valve Drain Requirements" sections.
- The water softener works on 24V DC electrical power, supplied by a direct plug-in power supply (included). Provide nearby a 120V, 60 Hz electrical outlet in accordance with national and local codes.
- Always install the water softener between the water inlet and water heater. Any other installed water conditioning equipment should be installed between the water inlet and water softener (See Figure 4 below).
- Avoid installing in direct sunlight. Excessive sun heat may cause distortion or other damage to non-metallic parts.
- Install on a flat, stable surface that evenly supports the weight of the water softener.

PLUMBING CODES

All plumbing must be completed in accordance with national, state and local plumbing codes.

AIR GAP REQUIREMENTS

A drain is needed for regeneration water (See Figure 3). A floor drain, close to the water softener, is preferred. A laundry tub, standpipe, etc. are other drain options. Secure valve drain hose in place. Leave an air gap of 1-1/2" between the end of the hose and the drain. This gap is needed to prevent backflow of sewer water into the water softener. Do not put the end of the drain hose into the drain.

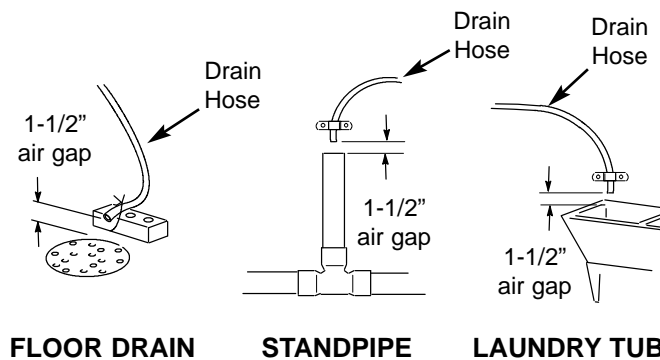


FIG. 3

THE PROPER ORDER TO INSTALL WATER TREATMENT EQUIPMENT

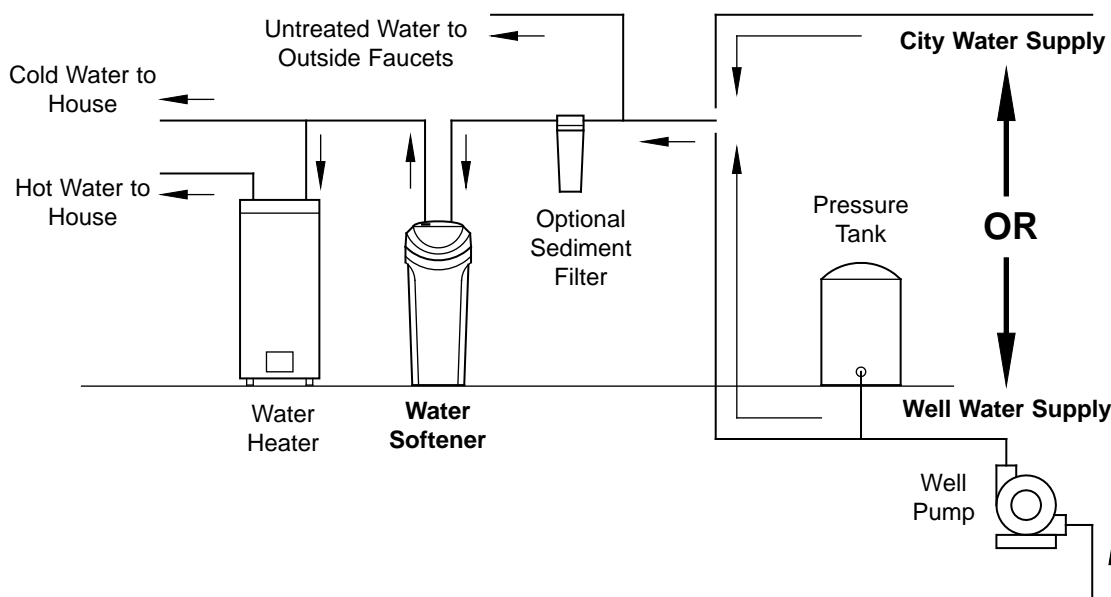


FIG. 4

Installation Requirements

VALVE DRAIN REQUIREMENTS

Using the flexible drain hose (included), measure and cut to the length needed. Flexible drain hose is not allowed in all localities (check your plumbing codes). If local codes do not allow use of a flexible drain hose, a rigid valve drain run must be used. Purchase a compression fitting (1/4 NPT x 1/2 in. minimum tube) and 1/2" tubing from your local hardware store. Plumb a rigid drain as needed (See Figure 6).

NOTE: Avoid drain hose runs longer than 30 feet. Avoid elevating the hose more than 8 feet above the floor. Make the valve drain line as short and direct as possible.

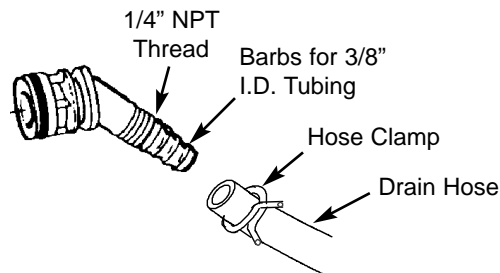


FIG. 5

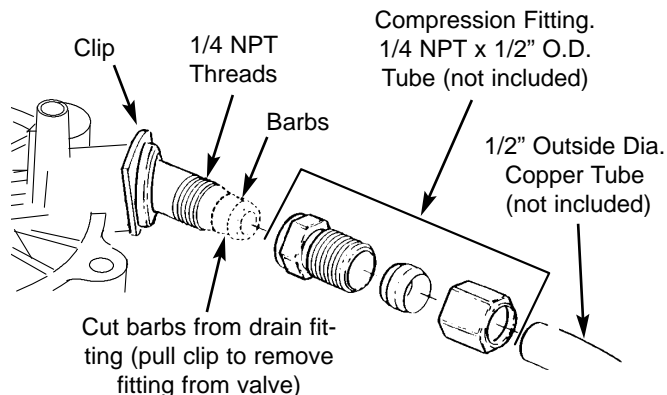


FIG. 6

INLET / OUTLET PLUMBING OPTIONS

Always install either a single bypass valve (provided), as shown in Figure 7, or, if desired, parts for a 3 valve bypass system (not included) can be purchased and assembled, as shown in Figure 8. Bypass valves allow you to turn off water to the softener for maintenance if needed, but still have water in house pipes.

Use:

- Copper pipe
- Threaded pipe
- PEX (Crosslinked Polyethylene) pipe
- CPVC plastic pipe
- Other pipe approved for use with potable water

IMPORTANT: Do not solder with plumbing attached to the single bypass valve. Soldering heat will damage the plastic valve.

SINGLE BYPASS VALVE

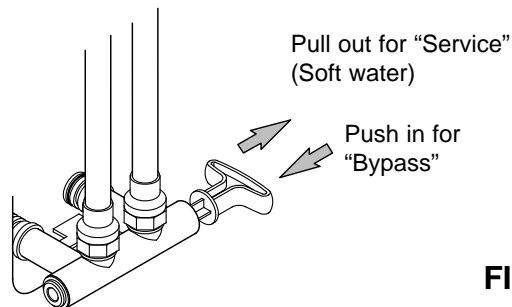


FIG. 7

3 VALVE BYPASS

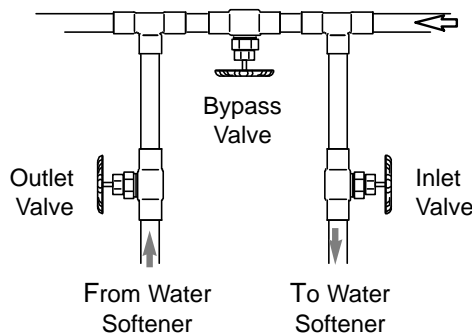


FIG. 8

Installation Instructions

Typical Installation

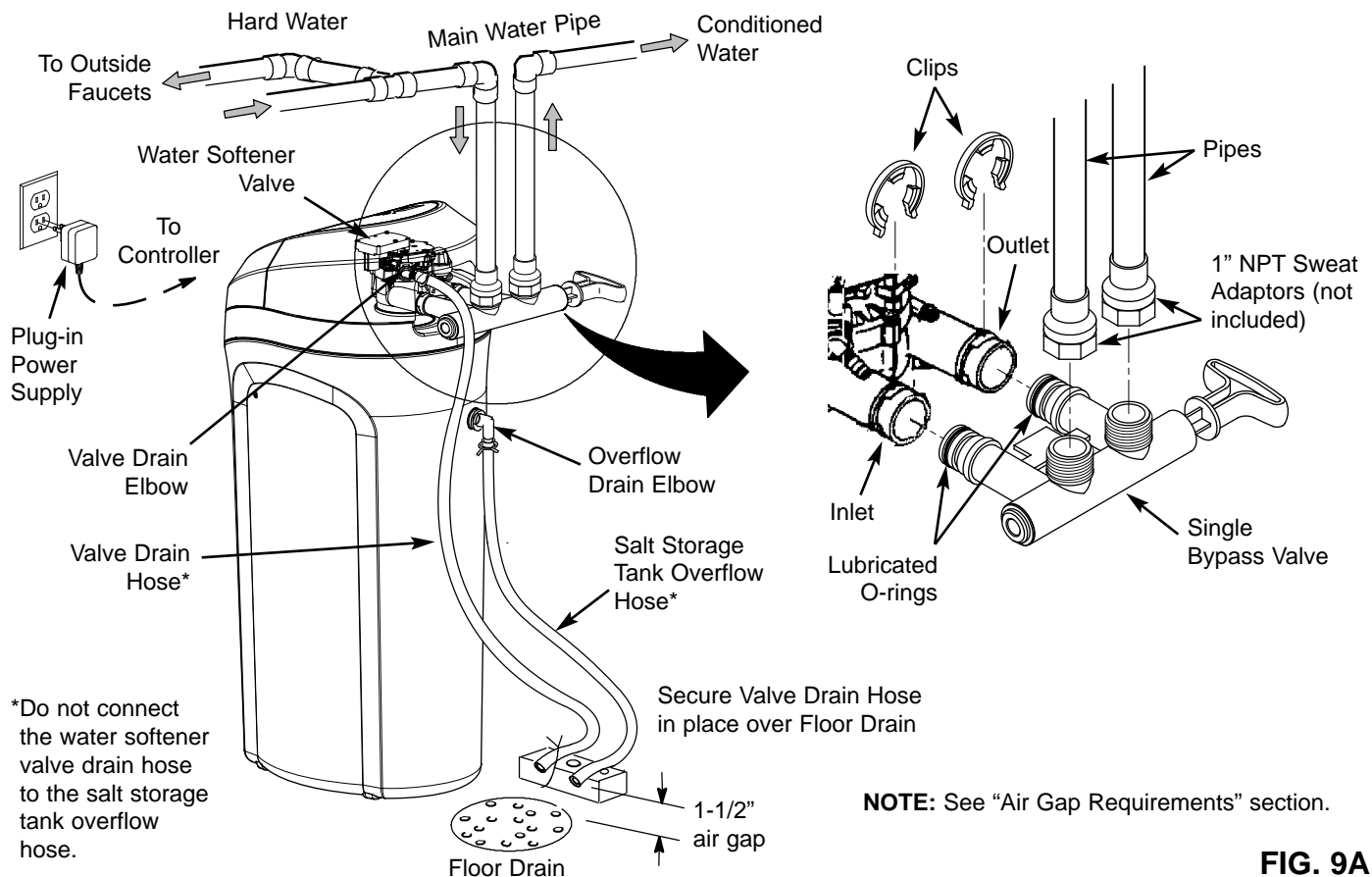


FIG. 9A

TURN OFF WATER SUPPLY

1. Close the main water supply valve, located near the well pump or water meter.
2. Shut off the electric or fuel supply to the water heater.
3. Open all faucets to drain all water from house pipes.

NOTE: Be sure not to drain water from the water heater, as damage to the water heater elements could result.

ASSEMBLY

1. EcoPure models are factory assembled. During installation, unsnap and remove the top cover, together with the salt lid, to expose the softener valve assembly. Set them aside to prevent damage. Check the brinewell to be sure it is secured and vertical (See Figure 11).
2. Install the brine tank overflow grommet and elbow into the 13/16" diameter hole in the back of the salt storage tank wall.

MOVE THE UNIT INTO PLACE

1. Move the water softener into the desired location. Set it on a solid, level surface.

IMPORTANT: Do not place shims directly under the salt storage tank to level the softener. The weight of the tank, when full of water and salt, may cause the tank to fracture at the shim.

2. Visually check and remove any debris from the water softener valve inlet and outlet ports. Carefully remove the two large plastic clips (you will use them).
3. Make sure the turbine assembly spins freely in the "out" port of the valve (See Figure 10).
4. If not already done, put a light coating of silicone grease on the single bypass valve o-rings.
5. Push the single bypass valve into the softener valve as far as it will go. Snap the two large holding clips into place, from the top down as shown in Figures 12 & 13.

IMPORTANT: Be sure the clips snap firmly into place so the single bypass valve will not pull out.

Installation Instructions

Typical Installation (with optional motorized water shutoff valve)

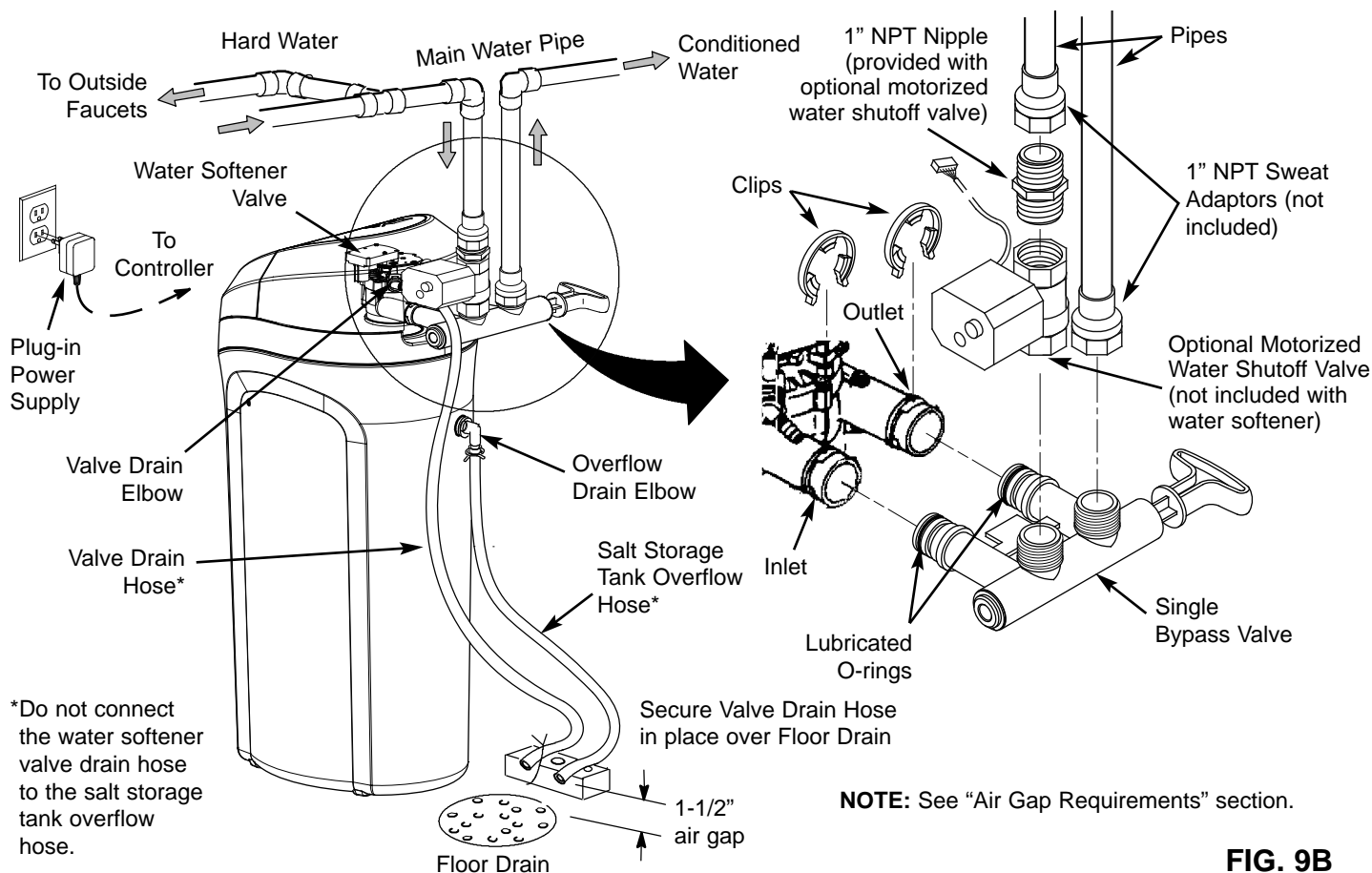


FIG. 9B

(OPTIONAL) INSTALL THE MOTORIZED WATER SHUTOFF VALVE

If you purchased the optional water shutoff valve, install it in the plumbing upstream of the softener inlet. Figure 9B shows installation with the shutoff valve immediately upstream of the bypass valve inlet, using the bypass valve's threaded connection and the 1" NPT nipple provided with the shutoff valve.

The shutoff valve may also be installed in the plumbing farther upstream of the softener, making sure that the 10 foot long cable will reach the softener's electronic control board (See Figure 9C). The shutoff valve's inlet and outlet are female 1" NPT. Support the weight of the shutoff valve.

After completing plumbing, make sure that the water softener is not powered up, and plug the cable from the shutoff valve into the corresponding connector on the electronic control board (See Fig. 9C or Schematic on Page 25).

CAUTION: Do not place fingers into the motorized shutoff valve when it is plugged into the electronic controller.

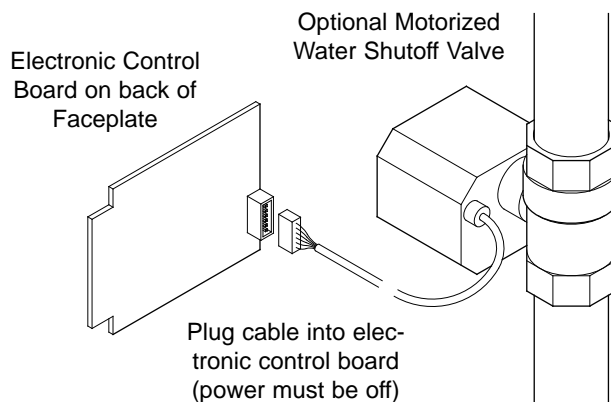


FIG. 9C

NOTE: The shutoff valve may be operated manually by pulling out and turning the knob on the shutoff valve body (See Fig. 60 on Page 26), although there is no need to do this when installing.

Installation Instructions

COMPLETE INLET AND OUTLET PLUMBING

1. Measure, cut, and loosely assemble pipe and fittings from the main water pipe to the inlet and outlet ports of the water softener valve. Be sure to keep fittings fully together, and pipes squared and straight.

Be sure hard water supply pipe goes to the water softener valve inlet side.

NOTE: Inlet and outlet are marked on the water softener valve. Trace the water flow direction to be sure hard water is to inlet.

IMPORTANT: Be sure to fit, align and support all plumbing to prevent putting stress on the water softener valve inlet and outlet. Undue stress from misaligned or unsupported plumbing may cause damage to the valve.

Complete the inlet and outlet plumbing for the type of pipes you will be using.

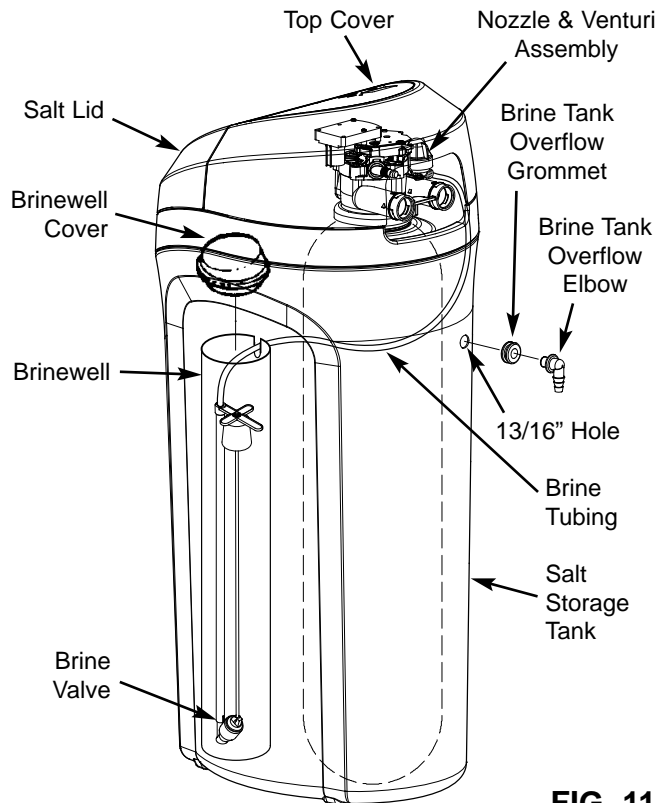


FIG. 11

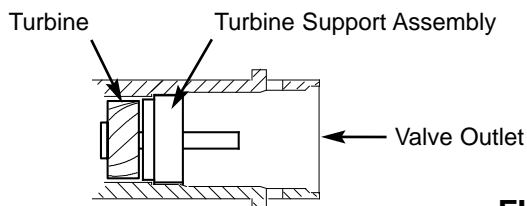


FIG. 10

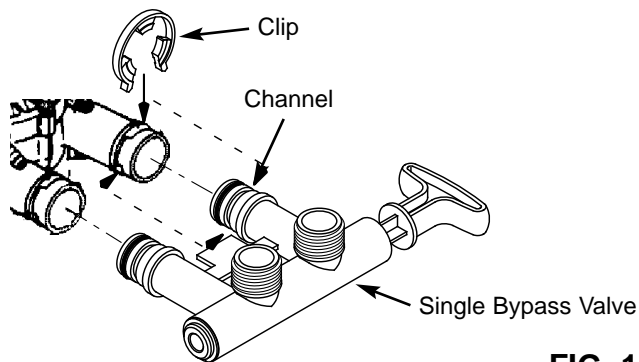


FIG. 12

Correct Assembly

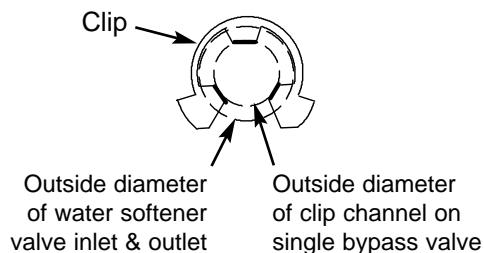


FIG. 13

NOTE: Be sure all 3 tabs of the clip go through the matching holes on the water softener valve inlet or outlet, and fully into the channel on the single bypass valve. Make sure that the tabs are fully seated.

Installation Instructions

COLD WATER PIPE GROUNDING

CAUTION: The house cold water pipe (metal only) is often used as a ground for the house electrical system. The 3-valve bypass type of installation, shown in Figure 8, will maintain ground continuity. If you use a plastic bypass valve at the unit, continuity is broken. To restore the ground, do the following:

1. Install a #4 copper wire across the removed section of main water pipe, securely clamping it at both ends (See Figure 14) - parts not included.

NOTE: Check local plumbing and electrical codes for proper installation of the ground wire. The installation must conform to them. In Massachusetts, plumbing codes of Massachusetts shall be conformed to. Consult with your licensed plumber.

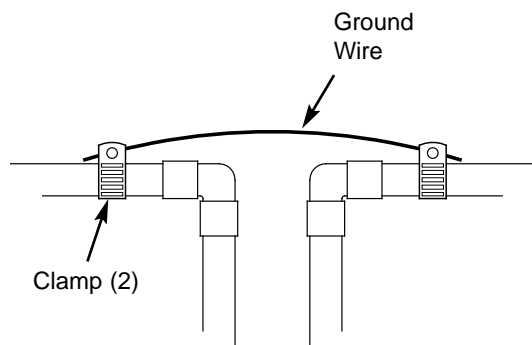


FIG. 14

INSTALL VALVE DRAIN HOSE

NOTE: See valve drain options on pages 6 & 7.

1. Measure, cut to needed length and connect the 3/8" drain line (provided) to the water softener valve drain fitting. Use a hose clamp to hold the hose in place.

IMPORTANT: If codes require a rigid drain line, see "Valve Drain Requirements" on Page 7.

2. Run the drain hose (or a rigid line) to the floor drain. Secure drain hose. This will prevent "whipping" during regenerations. **Be sure to provide a 1-1/2" minimum air gap to prevent possible sewer water backup.** See "Air Gap Requirements" on Page 6.

NOTE: In addition to a floor drain, you can use a laundry tub or standpipe as a good drain point for this hose.. Avoid long drain hose runs, or elevating the hose more than 8' above the floor.

INSTALL SALT STORAGE TANK OVERFLOW HOSE

1. Measure, cut to needed length and connect the 3/8" drain line (provided) to the salt storage tank overflow elbow and secure in place with a hose clamp.
2. Route the hose to the floor drain, or other suitable drain point no higher than the drain fitting on the salt storage tank (This is a gravity drain). If the tank overfills with water, the excess water flows to the drain point. Cut the drain line to the desired length and route it neatly out of the way.

IMPORTANT: For proper operation of the water softener, do not connect the water softener valve drain tubing to the salt storage tank overflow hose.

TEST FOR LEAKS

To prevent air pressure in the water softener and plumbing system, complete the following steps in order:

1. Fully open two or more softened cold water faucets close to the water softener, located downstream from the water softener.
2. Place the bypass valve (single or 3 valve) into the "bypass" position. See Figures 7 & 8 on Page 7.
3. Slowly open the main water supply valve. Run water until there is a steady flow from the opened faucets, with no air bubbles.
4. Place bypass valve(s) in "service" or soft water position as follows:
 - Single bypass valve: Slowly move the valve stem toward "service," pausing several times to allow the water softener to fill with water.
 - 3 valve bypass: Fully close the bypass valve and open the outlet valve. Slowly open the inlet valve, pausing several times to allow the water softener to fill with water.
5. After about three minutes, open a hot water faucet until there is a steady flow and there are no air bubbles, then close this faucet.
6. Close all cold water faucets and check for leaks at the plumbing connections that you made.
7. Check for leaks around clips at softener's inlet and outlet. If a leak occurs at a clip, depressurize the plumbing (turn off the water supply and open faucets) before removing clip. When removing clips at the softener's inlet or outlet, push the single bypass valve body toward the softener (See Figure 15). Improper removal may damage clips. Do not reinstall damaged clips.

Installation Instructions

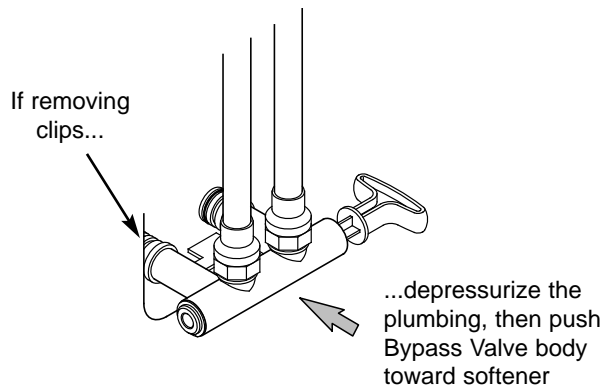


FIG. 15

ADD WATER AND SALT TO THE SALT STORAGE TANK

1. Using a container, add about three gallons of clean water into the salt storage tank.
2. Add salt to the storage tank. Use nugget, pellet or coarse solar salts with less than 1% impurities.

PLUG IN THE POWER SUPPLY

During installation, the water softener wiring may be moved or jostled from place. Check to be sure all leadwire connectors are secure on the back of the electronic board and be sure all wiring is away from the valve gear and motor area, which rotates during regenerations.

Plug the water softener's power supply into an electrical outlet that is not controlled by a switch and is approved by local codes.

PROGRAM THE CONTROLLER

1. Install the softener's top cover and salt lid.
2. Complete the programming steps on Pages 13-15.

SANITIZE THE WATER SOFTENER / SANITIZE AFTER SERVICE

Care is taken at the factory to keep your unit clean and sanitary. Materials used to make the unit will not infect or contaminate your water supply, and will not cause bacteria to form or grow. However, during shipping, storage, installation and operation, bacteria could get into the unit. For this reason, sanitizing as follows is suggested* when installing.

1. Open the salt lid, remove the brinewell cover and pour about 3 oz. (6 tablespoons) of household bleach into the softener brinewell. Replace the brinewell cover.
2. Make sure the bypass valve(s) is in the "service" (open) position.
3. **Start a recharge:** Press the RECHARGE button and hold for 3 seconds, until "Recharge Now" begins to flash in the display. This recharge draws the sanitizing bleach into and through the water softener. Any air remaining in the unit is purged to the drain.
4. After the recharge has completed, fully open a cold water faucet, downstream from the softener, and allow 50 gallons of water to pass through the system. This should take at least 20 minutes. Close the faucet.

*Recommended by the Water Quality Association. On some water supplies, the unit may need periodic disinfecting.

RESTART THE WATER HEATER

1. Turn on the electricity or fuel supply to the water heater and relight the pilot, if applicable.

NOTE: The water heater is filled with hard water and, as hot water is used, it refills with conditioned water. In a few days, the hot water will be fully conditioned. To have fully conditioned hot water immediately, wait until the initial recharge (previous step) is over. Then, drain the water heater (following instructions for water heater) until water runs cold.

Questions? Call Toll Free 1-800-693-1138 or visit www.ecopure.com

When you call, please be prepared to provide the model and serial number, found on the rating decal, typically located on the rim below the salt lid hinges.

Programming the Water Softener

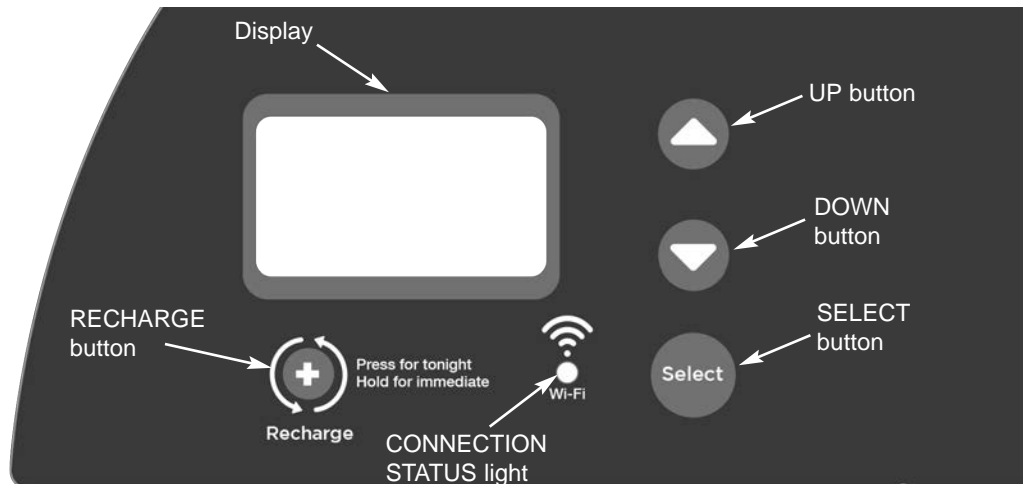


FIG. 16

CLEAN REMINDER

The screen in Figure 17 appears, with “CLEAn” flashing in the display, when four months have elapsed on the system’s timer since start up or the last reset.



FIG. 17

This is a reminder to use EcoPure EPCL Water Softener Cleaner three times a year. To reset the timer, press any button on the control panel and “CLEAn” will disappear.

PROGRAM THE SOFTENER

When the power supply is plugged into the electrical outlet, the model code (EP40) and a software version number (example: r5.1), are briefly shown in the face-plate display. Then the words “SET TIME” appear and “12:00 PM” begins to flash.



FIG. 18

NOTE: If “- - -” shows in the display, press the \triangle UP or ∇ DOWN button until the model code shows in the display. Then, press the SELECT button to set, and change to the flashing “SET TIME” display.

STEP 1. SET TIME OF DAY

If the words “SET TIME” do not show in the display, press the SELECT button several times until they do.



FIG. 19

continued on next page

Programming the Water Softener

continued from previous page

1. Press the \triangle UP or ∇ DOWN buttons to set the present time. Up moves the display ahead; down sets the time back. Be sure AM or PM is correct.

NOTE: Press buttons and quickly release to slowly advance the display. Hold the buttons down for fast advance.

NOTE: On Wi-Fi connected systems, the current time will be updated and maintained automatically via Wi-Fi.

2. When the correct time is displayed, press the SELECT button, and the display will change to show the "Hardness" screen.

STEP 2. SET WATER HARDNESS NUMBER

If you completed the previous step, the words "SET HARDNESS" should show in the display. Otherwise, press the SELECT button several times until they do.



FIG. 20

1. Press the \triangle UP or ∇ DOWN buttons to set the hardness of your water supply, in grains per gallon. The default is 25.

NOTE: If your water supply contains iron, compensate for it by adding to the water hardness number. For example, assume your water is 20 gpg hard and contains 2 ppm iron. Add 5 to the hardness number for each 1 ppm of iron. In this example, you would use 30 for your hardness number.

$$\begin{array}{r} 20 \text{ gpg hardness} \\ 2 \text{ ppm iron} \times 5 = 10 \\ \text{(times)} \quad \quad \quad \underline{+10} \\ \hline 30 \text{ HARDNESS NUMBER} \end{array}$$

2. When finished setting your water's hardness number, press the SELECT button, and the display will change to show the "Recharge Time" screen.

STEP 3. SET RECHARGE (REGENERATION) START TIME

If you completed the previous step, the words "SET RECHARGE TIME" should show in the display. Otherwise, press the SELECT button several times until they do.



FIG. 21

1. The softener's default recharge start time is 2:00 AM. This is normally a time of day when water is not being used in the household. Hard water bypasses the softener if the household draws water during the recharge cycle. If a different recharge start time is desired, press the \triangle UP or ∇ DOWN buttons to change the time, in 1-hour increments. Be sure AM or PM is correct.
2. When the desired recharge start time is displayed, press the SELECT button, and the display will change to show one of the "Salt Type" screens shown below.

STEP 4. SET SALT TYPE

If you completed the previous step, either "nACL" (for Sodium Chloride) or "kCL" (for Potassium Chloride) should show in the display. Otherwise, press the SELECT button several times until one of them does.



FIG. 22

1. Press the \triangle UP or ∇ DOWN buttons to set the type of salt you will be using in your water softener. The default is NaCl (standard Sodium Chloride water softener salt). If you will be using KCl (Potassium Chloride) instead, be sure to set salt type to KCl. This setting adjusts the regeneration cycle times to compensate for the different rate at which KCl dissolves. See also Page 20 for more information on salt types.
2. When the correct salt type is displayed, press the SELECT button, and the display will change to show the "Set Salt Level" screen.

Programming the Water Softener

STEP 5. SET SALT LEVEL

If you completed the previous step, the words "SET SALT LEVEL" should show in the display. Otherwise, press the SELECT button until they do.

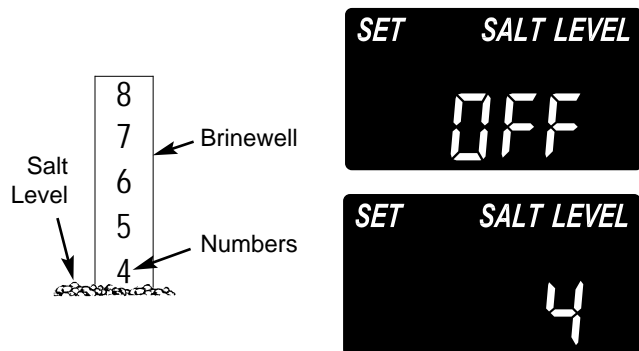


FIG. 23

1. Lift the salt lid and level the salt in the storage tank.
2. The salt level scale, on the brinewell inside the tank, has numbers from 0 to 8 (see Fig. 23). Observe the highest number the leveled salt is at, or closest to.
3. Press the \triangle UP or ∇ DOWN buttons until the number on the screen corresponds to the salt level. At level 2 or below, "LOW SALT LEVEL" will flash in the display. If you wish to turn this feature off, press the ∇ DOWN button past 0, and the word "OFF" flashes in the display.
4. When finished setting the salt level, press the SELECT button. The display returns to the normal time of day screen (Fig. 24).

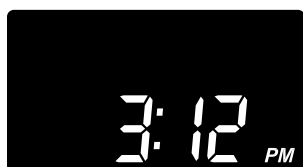


FIG. 24

SALT LEVEL MONITOR SYSTEM

You must set salt level each time salt is added to the water softener. The salt monitor system estimates salt levels, and accuracy will vary with different salts. At level 2 or below, "LOW SALT LEVEL" will flash in the display (Fig. 25) to remind you to add salt.



FIG. 25

EXTRA RECHARGE

Sometimes, a manually initiated recharge (regeneration) may be desired, or needed. Two examples are:

- You have used more water than usual (guests visiting) and you may run out of soft water before the next automatic regeneration.
- You did not add salt to the softener before it ran out. Add salt to the softener before regenerating.

You can start a regeneration immediately, or you can set the controller to regenerate at the next preset recharge time (2:00 AM, or as set).

Recharge Now

1. Press the RECHARGE button and hold for 3 seconds, until the words "RECHARGE NOW" begin to flash in the display.



FIG. 26

The softener enters the fill cycle of regeneration immediately. This regeneration will take about 2 hours to complete. Then, you will have soft water again.

NOTE: If the "Clean Feature" is set ON, the normal regeneration cycle is preceded by a cleaning backwash and rinse.

Recharge Tonight

If you do not want to start an immediate recharge, but would like an extra recharge at the next preset recharge start time, do the following to schedule a recharge:

1. Press and release (do not hold) the RECHARGE button. "RECHARGE TONIGHT" will begin flashing in the display, and the softener will begin regeneration at the next preset recharge time (2:00 AM, or as set).

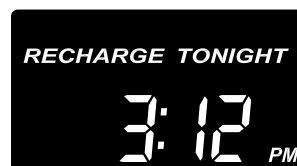


FIG. 27

If you decide to cancel the regeneration before it starts, press and release the RECHARGE button once more. "RECHARGE TONIGHT" will stop flashing in the display.

Connecting the System to Wi-Fi

STEP 1. DOWNLOAD THE iQua®2 APP

Go to the App Store or Google Play and download the **iQua®2** app. This must be installed on your mobile device to set up an account and connect your water softener to the “cloud”.

STEP 2. SET UP YOUR ACCOUNT

1. Open the **iQua®2** app.
2. On the welcome screen, tap **Create an Account**.

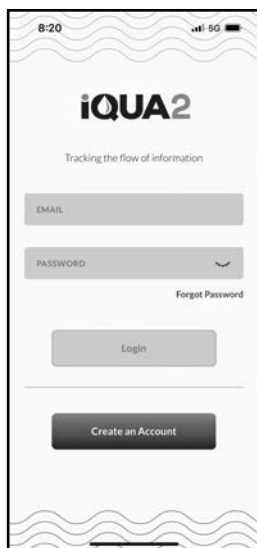


FIG. 28

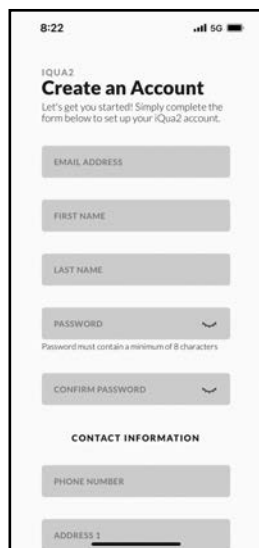


FIG. 29

3. Enter the e-mail address you want to receive notifications. Choose a password and fill in the remaining fields with your information (name, phone number, address, etc.).
4. Agree to the terms and tap **Submit** to create your account.
5. A confirmation code has been sent to the e-mail address you provided when creating your account. Enter the code and tap **Validate User** to validate the account. If you don't see the e-mail in your inbox, check your spam or junk folder, and flag it as safe so that future notifications from iqua2.com will not be blocked.

STEP 3. PUT WATER SOFTENER CONTROL INTO CONNECT MODE

1. If you haven't already done so, program the water softener with time, hardness, salt level, etc., as shown on pages 13-15.
2. Make sure that the softener's display shows the current time, without the word “SET”. Press the SELECT button several times if “SET” shows.

3. On the water softener's front panel (See Fig. 30), press both the \triangle UP and ∇ DOWN buttons, and hold them for 3 seconds.

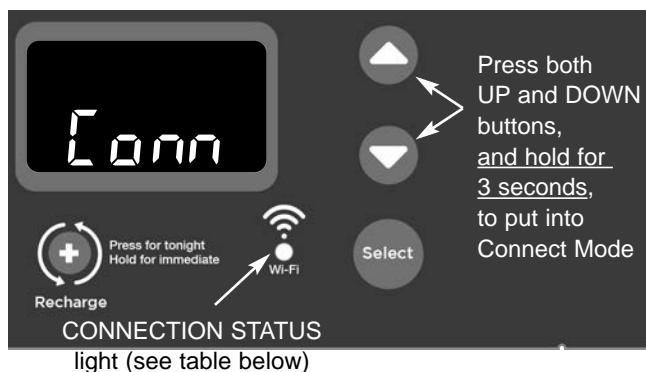


FIG. 30

4. Release the buttons when “Conn” appears in the display (See Fig. 30) and the connection status light turns solid amber.
5. The system is now in Connect Mode, ready to be connected to the “cloud”, and will remain for 15 minutes. If Connect Mode has “timed out” and the light is off, you can enter Connect Mode again by pressing both the \triangle UP and ∇ DOWN buttons and holding them for 3 seconds.

Connection Status light indication	Status
No Light	Wi-Fi not set up or is off.
Solid Amber	System is in Connect Mode, waiting to begin connecting to the app.
Flashing Amber	System is connecting to Wi-Fi.
Flashing Green	System is connecting to the Internet.
Solid Green	System has a good Wi-Fi signal and is connected to the Internet.
Flashing Red	Wi-Fi connection error.
Alternating Red and Green	Internet connection error.
Red with Amber Flashes	Wi-Fi connected, but not Internet.
Solid Amber (not in Connect Mode)	Wi-Fi signal is poor.
Green with Amber Flashes	System is downloading an over-the-air update.
Rapidly Flashing Red	System is installing an over-the-air update.

Connecting the System to Wi-Fi

6. With the system in Connect Mode, continue to Step 4 to use the app to connect your water softener to the “cloud” via the home’s wireless router.

STEP 4. CONNECT AND REGISTER YOUR WATER SOFTENER

1. If you completed Step 2 on the previous page, you’ll automatically be signed into your **iQua®2** account. If you’ve created an account previously, sign in using your e-mail address and password.
2. After signing into your account, verify that the softener is still in Connect Mode (See Fig. 30). In the app, tap **Connect** to add the softener, then **Setup Device** to begin pairing via Bluetooth.



FIG. 31



FIG. 32

3. Once the softener is found, tap **Yes** to set up the device and begin connecting to Wi-Fi.

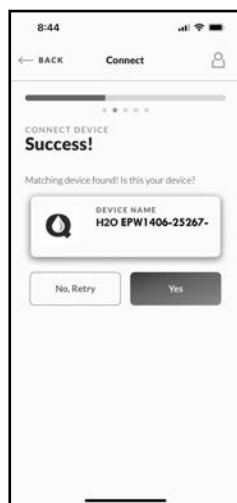


FIG. 33



FIG. 34

4. The app screen will show a list of wireless networks in range. Select your home’s wireless network and enter the Wi-Fi password, then tap **Connect device to network**.



FIG. 35

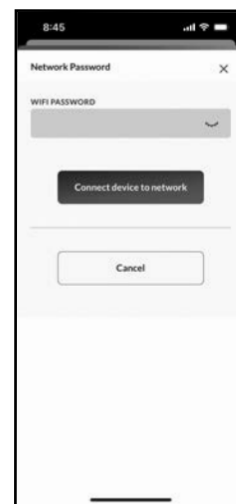


FIG. 36

5. The softener’s display will change to “C-1” while connecting to Wi-Fi, then “C-2” while connecting to the Internet. When the softener successfully connects to the Internet, you’ll hear a beep and see the following screen on the app (See Fig. 39). Tap the button to continue.



FIG. 37



FIG. 38



FIG. 39

NEW WI-FI ROUTER?

If you replace your local Wi-Fi router, a previously connected system will not automatically connect to the new router. Starting with **Step 3** on the previous page, put the softener into connect mode and repeat the wireless setup procedure to connect your system to the new router.

Controller Features

OPTIONAL SETTINGS:

- SALT EFFICIENCY
- CLEAN FEATURE
- CLEAN FEATURE MINUTES
- MAXIMUM DAYS BETWEEN REGENERATIONS
- 12 / 24 HOUR CLOCK
- BACKWASH & FAST RINSE TIMES

1. To set any of these options, press and hold the SELECT button for 3 seconds until "000" shows in the display.



FIG. 40

Then press (do not hold) SELECT again to display one of the "Salt Efficiency" screens shown below.

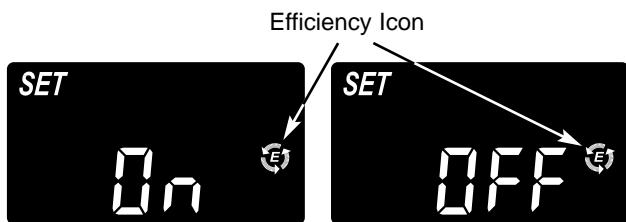


FIG. 41

SALT EFFICIENCY: When this feature is ON, the water softener will operate at salt efficiencies of 4000 grains of hardness per pound of salt or higher. The softener may recharge more often using smaller salt dosage and less water. This softener is shipped with the efficiency feature set OFF. Use the Δ UP or ∇ DOWN buttons to change between OFF and ON. An efficiency icon will be displayed when this feature is ON.


Displayed when efficiency is set to "ON"



FIG. 42

California Efficiency Requirement

Your EcoPure Water Softener has a "High Efficiency" feature with an ON or OFF setting. This softener setting is shipped in the OFF position, which utilizes the maximum rated capacity while most often achieving maximum salt efficiencies. When installing this unit in the State of California, you **MUST** turn this setting to the ON position, which may initiate more frequent recharges. However it will operate at 4000 grains per pound of salt or higher.

If you wish to turn the Salt Efficiency feature ON ( icon will show in the display), follow the instructions on this page.

2. Press SELECT again to display the "Set Clean" screen.



FIG. 43

CLEAN: This feature is beneficial on water supplies containing iron and/or high amounts of sediments (sand, silt, dirt, etc.). When set to ON, a backwash and fast rinse cycle will occur first, preceding the normal regeneration sequence. This provides extra cleaning of the resin bed before it is regenerated with the salt brine. To conserve water, if your water supply does not contain iron or sediments, be sure this feature is set to OFF. The default is OFF. Use the Δ UP or ∇ DOWN buttons to change between OFF and ON.

3. Press SELECT again to display the "Set Clean Time" screen.



FIG. 44

CLEAN FEATURE MINUTES: If you have set the Clean Feature ON, the length of the extra backwash cycle automatically is set to 3 minutes.

continued on next page

Controller Features

continued from previous page

However, you can adjust this time from 1 to 15 minutes in length. To change this cycle time, use the \triangle UP button to increase the time, or the ∇ DOWN button to shorten the time. If no change is desired, continue to next step.

4. Press SELECT again to display the "Recharge Days" screen.



FIG. 45

MAXIMUM DAYS BETWEEN REGENERATIONS:

The electronic controller automatically determines regeneration frequency. This provides the greatest operating efficiency and, under most conditions this feature will be left in its default mode. However, you can set this feature to force a regeneration every set number of days. You may want to do this if, for example, your water supply contains iron and you want the softener to regenerate at least once every few days to keep the resin bed clean. Use the \triangle UP or ∇ DOWN buttons to change the number of days (up to 15). If no change is desired, continue to next step.

5. Press SELECT again to display the "12 or 24 hr" screen.



FIG. 46

12 OR 24 HOUR CLOCK: All time displays are shown in 12 hour (AM/PM) time format at the default setting. If 24 hour time format is desired, set to 24 hr by pressing the \triangle UP button.

6. Press SELECT again to display the backwash time "Add" screen.



FIG. 47

BACKWASH & FAST RINSE TIMES: If you experience salty tasting water after regeneration, you may need to increase the backwash and fast rinse times. The cycle times during regeneration are determined by the softener's electronic controller. However, you may increase the backwash and fast rinse times, in 1 minute increments.

If you wish to increase the backwash time, use the \triangle UP or ∇ DOWN buttons to add up to 15 minutes. Then press SELECT to display the fast rinse time "Add" screen.



FIG. 48

If you wish to increase the fast rinse time, use the \triangle UP or ∇ DOWN buttons to add up to 15 minutes.

7. Press SELECT to return to the normal run (time of day) screen.



FIG. 49

POWER OUTAGE MEMORY

If electrical power to the softener is interrupted, the time display is blank, but the electronic controller keeps correct time for several hours. When power is restored, you must reset the present time only if the display is flashing. All other settings are maintained and never require resetting unless a change is desired. If the time is flashing after a long power outage, the softener continues to work as it should to provide you with soft water. However, regenerations may occur at the wrong time of day until you reset the clock to the correct time of day.

NOTE: If the water softener was regenerating when power was lost, it will now finish the cycle.

Routine Maintenance

ADDING SALT

Lift the salt lid and check the salt storage level frequently. If the water softener uses all the salt before you refill it, you will experience hard water. Until you have established a refilling routine, check the salt every two or three weeks. Always add if less than 1/4 full. Be sure the brinewell cover is on.

NOTE: In humid areas, it is best to keep the salt storage level lower, and to refill more often to avoid salt "bridging".

Recommended Salt: Nugget, pellet or coarse solar salts with less than 1% impurities.

Salt Not Recommended: Rock salt, high in impurities, block, granulated, table, ice melting, ice cream making salts, etc..

BREAKING A SALT BRIDGE

Sometimes, a hard crust or salt "bridge" forms in the brine tank. It is usually caused by high humidity or the wrong kind of salt. When the salt "bridges," an empty space forms between the water and the salt. Then, salt will not dissolve in the water to make brine. Without brine, the resin bed is not recharged and hard water will result.

If the storage tank is full of salt, it is difficult to tell if you have a salt bridge. A bridge may be underneath loose salt. Take a broom handle, or like tool, and hold it next to the water softener. Measure the distance from the floor to the rim of the water softener. Then, gently push the broom handle straight down into the salt. If a hard object is felt before the pencil mark is even with the top, it is most likely a salt bridge. Gently push into the bridge in several places to break it. Do not use any sharp or pointed objects as you may puncture the brine tank. Do not try to break the salt bridge by pounding on the outside of the salt tank. You may damage the tank.

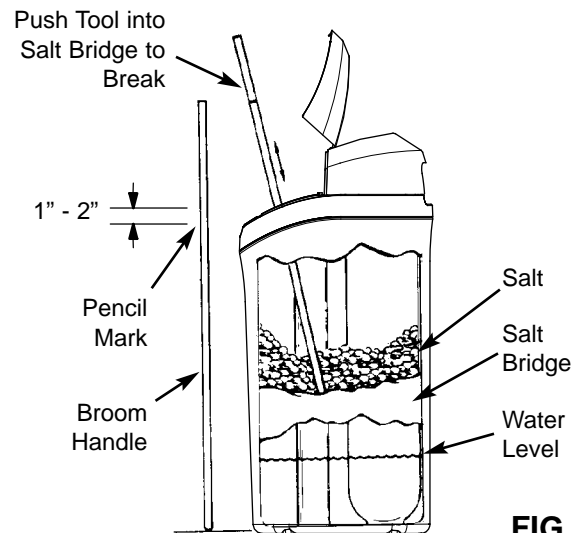
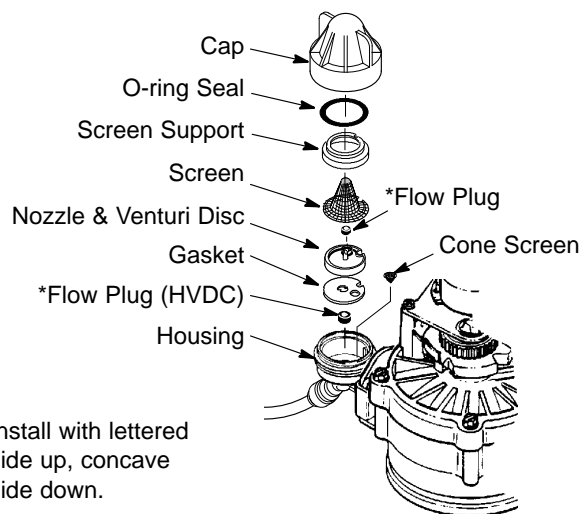


FIG. 50

Routine Maintenance

CLEANING THE NOZZLE & VENTURI

A clean nozzle & venturi (See Figure 51) is a necessity for the water softener to work properly. This small component creates the suction to move brine from the brine tank, into the resin tank. If it should become plugged with sand, silt, dirt, etc., the water softener will not work, and hard water will result.



IMPORTANT: Be sure small hole in the gasket is centered directly over the small hole in the nozzle & venturi housing. Be sure the numbers are facing up.

FIG. 51

To get access to the nozzle & venturi, remove the water softener's top cover. Put the bypass valve(s) into the bypass position. Be sure the water softener is in soft water (service) cycle (no water pressure at nozzle & venturi). Then, holding the nozzle & venturi housing with one hand, unscrew the cap. Do not lose the o-ring seal. Lift out the screen support and screen. Then, remove the nozzle & venturi disc, gasket and flow plug(s). Wash the parts in warm, soapy water and rinse in fresh water. Be sure to clean both the top and bottom of the nozzle & venturi disc. If needed, use a small brush to remove iron or dirt. Do not scratch, misshape, etc., surfaces of the nozzle & venturi.

Gently replace all parts in the correct order. Lubricate the o-ring seal with silicone grease and locate in place. Install and tighten the cap by hand, while supporting the housing. Overtightening may break the cap or housing. Put the bypass valve(s) into service (soft water) position.

Recharge the softener to reduce water level in the tank. This will also assure that the softener is completely recharged and ready to provide softened water again. Check the water level in the tank by looking down the brinewell. If the water level does not drop after a recharge, the problem has not been resolved. Call 1-800-693-1138.

PROTECT THE WATER SOFTENER FROM FREEZING

If the softener is installed where it could freeze (summer cottage, lake home, etc.), you must drain all water from it to stop possible freeze damage. To drain the softener:

1. Close the shut-off valve on the house main water pipe, near the water meter or pressure tank.
2. Open a faucet in the soft water pipes to vent pressure in the softener.
3. Move the stem in the single bypass valve to bypass. Close the inlet and outlet valve in a 3 valve bypass system, and open the bypass valve. If you want water in the house pipes again, reopen the shut-off valve on the main water pipe.
4. Unplug the power supply at the wall outlet. Slide open the salt lid and remove the softener's top cover. Take off both drain hoses if they will interfere with moving the softener into position over the drain.
5. Carefully remove the large holding clips at the softener inlet and outlet. Separate the softener from the plastic installation adaptors, or from the bypass valve.
6. Lay a piece of 2 inch thick board near the floor drain (See Figure 52).
7. Move the softener close to the drain. Slowly and gently, tip it over until the rim rests on the wood block with the inlet and outlet over the drain. Do not allow the softener's weight to rest on the inlet and outlet fittings or they may break.
8. Tip the bottom of the softener up a few inches and hold until all water has drained. Leave the softener laying like this until you are ready to use it. Plug the inlet and outlet with clean rags to keep dirt, bugs, etc. out.

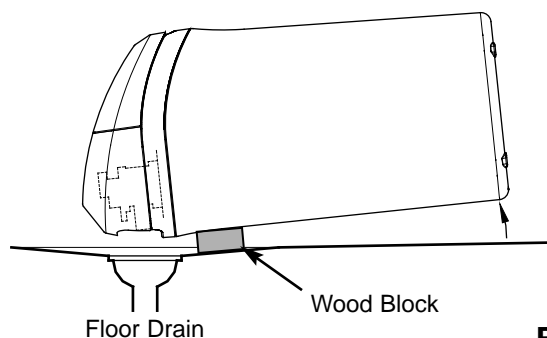


FIG. 52

Troubleshooting Guide

PROBLEM	CAUSE	CORRECTION
No soft water	1. No salt in the storage tank.	Refill with salt and then use RECHARGE NOW feature.
No soft water & display is blank	1. Power supply unplugged at wall outlet, or power cable disconnected from back of electronic board or power supply malfunction.	Check for loss of power and correct. Reset electronic controls and then use RECHARGE NOW feature.
	2. Fuse blown, circuit breaker popped, or circuit switched off (See "Power Outage Memory" on Page 19).	Replace fuse, reset circuit breaker, or switch circuit on, and then use RECHARGE NOW feature.
	3. Electronic control board malfunction.	Replace electronic control board (See Page 29).
No soft water & salt level not dropping	1. Salt "bridged".	Refer to "Breaking a Salt Bridge" on Page 20.
	2. Bypass valve(s) in "bypass" position.	Move bypass valve(s) to "service" position.
No soft water & salt storage tank full of water, water running to drain while unit is in the soft water cycle	1. Dirty, plugged or damaged nozzle & venturi assembly	Take apart, clean and inspect nozzle & venturi (See "Cleaning the Nozzle & Venturi" on Page 21).
	2. Inner valve fault causing leak.	Replace seals and rotor.
	3. Valve drain hose is plugged.	Hose must not have any kinks, sharp bends or any water flow blockage (See "Valve Drain Requirements" on Page 7).
	4. Valve drain line and Salt Storage Tank overflow drain connected together by a tee.	Disconnect tee and run separate drain lines.
	5. Low or high system water pressure (low pressure may disrupt brine draw during recharge, high pressure may cause inner valve parts failure).	If pressure is low, increase well pump output to a minimum 20 psi. If daytime pressure is over 100 psi, add a pressure reducing valve in the supply pipe to the softener. Contact a licensed plumber.
	6. Brine float dirty or broken.	Clean or replace Brine Valve Float Assembly.
	7. Leak between valve and resin tank.	Replace o-rings between resin tank and valve.
Water hard sometimes	1. Incorrect time set.	Check and change time setting (See Page 13).
	2. Incorrect water hardness set.	Refer to "Set Water Hardness Number" on Page 14.
	3. Incorrect model code programmed.	Refer to "Manual Advance Diagnostics" on Page 23 to set correctly.
	4. Hot water being used when softener is regenerating.	Avoid using hot water while the softener is regenerating, as the water heater will fill with hard water.
	5. Possible increase in water hardness.	Test untreated water for hardness and iron, and program the water softener accordingly (See "Set Water Hardness Number" on Page 14).
	6. Leaking faucet or toilet valve. Excessive water usage.	A small leak can waste hundreds of gallons of water in a few days. Fix all leaks and always fully close faucets.
Iron in water	1. Clear water iron in water supply.	Test untreated water for hardness and iron, and program the water softener accordingly (See "Set Water Hardness Number" on Page 14).
	2. Iron in soft water.	Clean resin bed with Resin Bed Cleaner. Follow instructions on package.
	3. Bacterial or organic bound iron.	Cannot be treated by water softener.
Resin in household plumbing	1. Crack in distributor or riser tube.	Replace resin tank assembly.
Salt storage tank leaking	1. Crack in brine tank.	Replace salt storage tank assembly.
Motor stalled or clicking	1. Motor malfunction or internal valve fault causing high torque on motor.	a. Replace rotor/seal. b. Replace motor & switch.
Error code E1, E3 or E4 appears	1. Fault in wiring harness or connections to position switch.	Replace wiring harness or connections to position switch.
	2. Fault in switch.	Replace switch.
	3. Fault in valve causing high torque.	Replace rotor/seal.
	4. Motor inoperative.	Replace motor.
Error code E5	1. Electronic control malfunction.	Replace electronic control board.
Status light off, but display is not blank	1. System not connected by Wi-Fi to the "cloud".	a. If internet service goes down, connection will automatically resume when internet service comes back up. b. If the home's wireless router was replaced, reconnect and register the system, as shown on Pages 16 & 17.

Troubleshooting

AUTOMATIC ELECTRONIC DIAGNOSTICS

The water softener self-monitors electronic components and circuits for correct operation. If a malfunction occurs, an error code appears in the display.



FIG. 53

Error Codes 01, 02, 03, 04 & 05:

These are the water softener error codes unrelated to the optional water shutoff valve. While one is in the display, the SELECT button remains operational so the service person can perform the Manual Advance Diagnostics, below, to further isolate the problem.

Procedure for removing error codes 01 through 05 from display:

1. Unplug power supply from electrical outlet.
2. Correct problem.
3. Plug power supply back in.
4. Wait 8 minutes. The error code will return if the problem was not corrected.

Error Codes 07, 08 & 09:

These error codes indicate a problem with the optional water shutoff valve. Make sure that the water shutoff valve is still plugged into the water softener's control board. To clear one of these codes from the display, press the RECHARGE button and hold for 3 seconds. If the error code is displayed again after a minute or two, the water shutoff valve probably needs to be replaced.

MANUAL ADVANCE DIAGNOSTICS

Use the following procedures to advance the water softener through the regeneration cycles to check operation.

Remove the top cover to expose the valve and observe cam and switch operation during valve rotation.

1. Press and hold SELECT for 3 seconds until "000" shows in the display, then release.
2. The 3 digits indicate water meter operation:
 - 000 (steady) = Soft water not in use, and no flow through the meter.Open a nearby soft water faucet.
 - 000 to 199 (continual) = Repeats for each gallon of water passing through the meter.

3. The letter "P" and a dash (or dashes) indicate position switch operation (See Figure 54). If the letter appears, the switch is closed. If two dashes show, the switch is open.

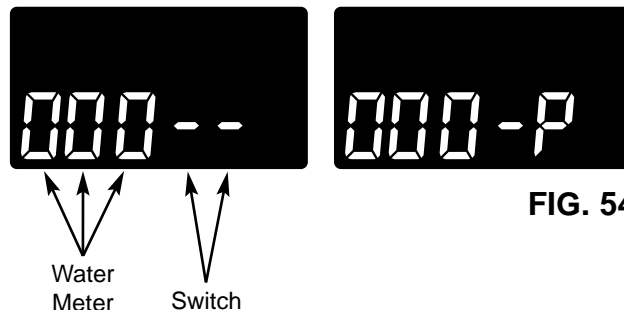


FIG. 54

4. Use the RECHARGE button to manually advance the valve into each cycle and check correct switch operation.
5. While in this diagnostic screen, the following information is available and may be beneficial for various reasons. This information is retained by the computer from the first time electrical power is applied to the electronic controller.
 - a. Press the \triangle UP button to display the number of days this electronic control has had electrical power applied.
 - b. Press the ∇ DOWN button to display the number of regenerations initiated by this electronic control since the code number was entered.
6. Press and hold the SELECT button until the model code ("EP40" for model EPW140) shows in the display. This code identifies the softener model. If an incorrect model code is displayed, the softener will operate on incorrect configuration data.



FIG. 55

7. To change the code number, press the \triangle UP or ∇ DOWN button until the correct code shows.
8. To return to the present time display, press the SELECT button.

Troubleshooting

RESETTING TO FACTORY DEFAULTS

To reset the electronic controller to its factory default for all settings (time, hardness, etc.):

1. Press the SELECT button and hold it until the display changes twice to show "SET" and the flashing model code.
2. Press the \triangle UP button (a few times, if necessary) to display a flashing "SoS".



FIG. 56

3. Press the SELECT button, and the electronic controller will restart.
4. Set the present time, hardness, etc., as described on Pages 13-15.

MANUAL ADVANCE REGENERATION CHECK

This check verifies proper operation of the valve motor, brine tank fill, brine draw, regeneration flow rates, and other controller functions. Always make the initial checks, and the manual initiated diagnostics.

NOTE: The electronic control display must show a steady time (not flashing). If an error code shows, see "Automatic Electronic Diagnostics" on the previous page.

1. Press the RECHARGE button and hold in for 3 seconds. RECHARGE begins to flash as the softener's valve advances from the service to fill position. Remove the brinewell cover and, using a flashlight, observe fill water entering the tank.

If water does not enter the tank, look for an obstructed nozzle, venturi, fill flow plug, brine tubing, or brine valve riser pipe.

2. After observing fill, press the RECHARGE button to move the softener's valve into the brine position. A slow flow of water to the drain will begin. Verify brine draw from the brine tank by shining a flashlight into the brinewell and observing a noticeable drop in the liquid level. This may take 15 to 20 minutes.

NOTE: Be sure water is in contact with the salt, and not separated by a salt bridge (See "Breaking A Salt Bridge" on Page 20).

If the water softener does not draw brine, check for (most likely to least likely):

- Dirty or plugged nozzle and venturi. See "Cleaning the Nozzle and Venturi" on Page 21.
- Nozzle and venturi not seated on the gasket, or gasket deformed.
- Valve seals leaking.
- Restriction in valve drain, causing back-pressure (bends, kinks, elevated too high, etc.). See "Install Valve Drain Hose" on Page 11.
- Obstruction in brine valve or brine tubing.

NOTE: If water system pressure is low, an elevated drain hose may cause back pressure, stopping brine draw.

3. Press the RECHARGE button to move the softener's valve into the backwash position. Look for a fast flow of water from the drain hose. Check that the drain can adequately handle the flow and volume.

An obstructed flow indicates a plugged top distributor, backwash flow plug, or drain hose.

4. Press the RECHARGE button to move the softener's valve into the fast rinse position. Again look for a fast drain flow. Allow the softener to rinse for a few minutes to flush out any brine that may remain in the resin tank from the brining cycle test.
5. To return the softener's valve to the service position, press the RECHARGE button.

Need help troubleshooting? Call Toll Free 1-800-693-1138 or visit www.ecopure.com

When you call, please be prepared to provide the model and serial number, found on the rating decal, located on the rim below the salt lid hinges.

Wiring Schematic

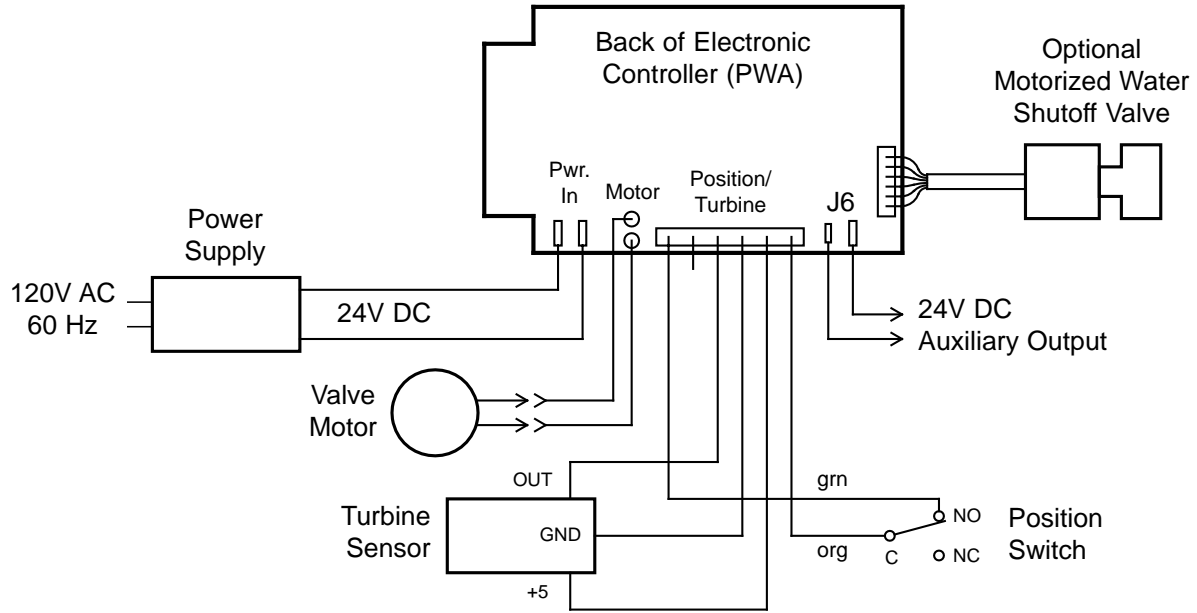


FIG. 57

Optional Motorized Water Shutoff Valve

The Motorized Water Shutoff Valve (sold separately) may be used with this EcoPure Wi-Fi connected water softener and the **iQua®2** app to remotely turn off the home's water supply. For example, you may want to turn off the water when going away on vacation. Install the motorized shutoff valve in the plumbing, upstream of the softener (see page 9), and plug the cable into the softener's electronic control board with the power off (see page 9 and Figure 57).

In the **iQua®2** app, in the Status tab at the bottom of the softener's main dashboard, there is a line labeled "Water Shutoff Valve" indicating the valve's current status. Tapping **Manage** allows you to operate the valve remotely. If you receive an alert indicating continuous water flow, you can use this control to remotely shut off the water.

The system default for triggering a continuous water flow alert is 30 minutes of flow at 0.4 gallons per minute or higher. The time and water flow trigger values may be adjusted by tapping **Manage Device** near the bottom of the Device tab, selecting **General**, then scrolling down to Alert Settings.

While the water shutoff valve is closed using the **iQua®2** app, if not recharging, the softener's display will alternate between the following screens:



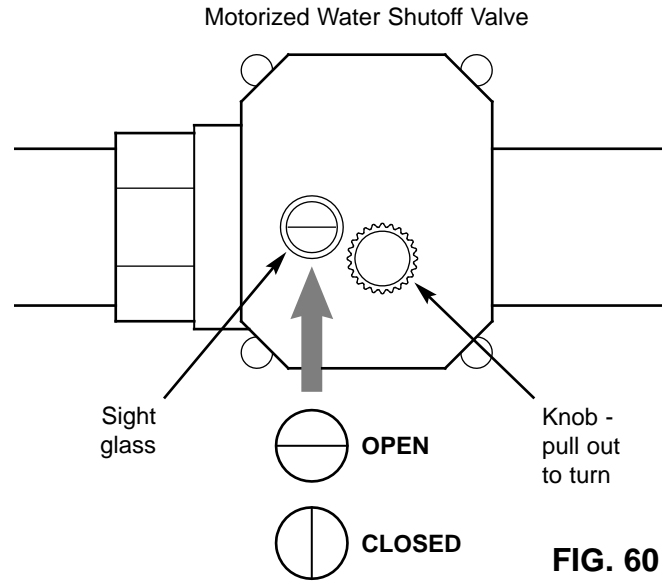
FIG. 58

You can reopen the water shutoff valve using the **iQua®2** app, or by holding the softener's Recharge button for 3 seconds.

If the softener was recharging when the valve was closed, a different message will appear indicating the recharge cycle has been suspended.



FIG. 59



To manually operate the motorized water shutoff valve, pull out the round knob on the valve and turn it until the red line in the sight glass matches the desired (open or closed) position (See Figure 60). If you manually operate the valve, the app's Water Shutoff Valve status will indicate "Manual" and the softener's display will alternate between the following screens to show that the system is not currently controlling the valve:



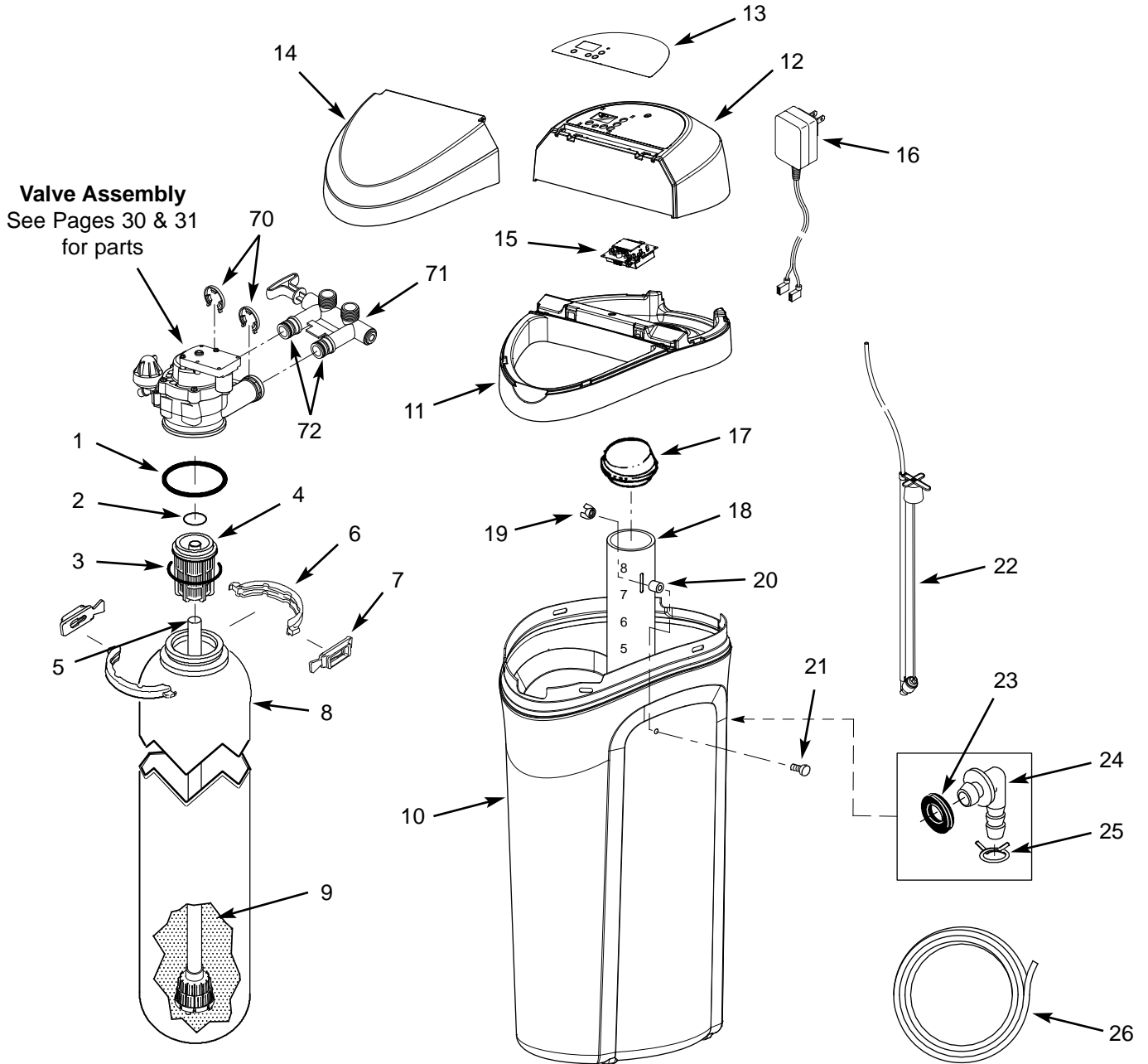
FIG. 61

To cancel the manual override and resume electronic control of the water shutoff valve, use the **iQua®2** app to **Open** or **Close** the valve, or press the Recharge button to return the valve to its previous position.

Note that if a recharge is in progress, the Recharge button will instead advance to the next stage of the recharge until the cycle ends.

Notes

Softener Exploded View



Softener Parts List

Key No.	Part No.	Description
–	7112963	Distributor O-Ring Kit (includes Key Nos. 1-3)
1	↑	O-Ring, 2-7/8" x 3-1/4"
2	↑	O-Ring, 13/16" x 1-1/16"
3	↑	O-Ring, 2-3/4" x 3"
4	7077870	Top Distributor
5	7105047	Repl. Bottom Distributor
–	7331177	Tank Neck Clamp Kit (includes Key Nos. 6 & 7)
6	↑	Clamp Section (2 req.)
7	↑	Retainer Clip (2 req.)
8	7264922	Repl. Resin Tank, 9" x 35"
9	0502272	Resin, 1 cu. ft.
10	7403958	Brine Tank
11	7388310	Rim
12	7403974	Top Cover (order decal below)
13	7404027	Faceplate Decal
14	7403982	Salt Lid (order decal below)
■	7404051	Instruction Decal

Key No.	Part No.	Description
15	7404506	Repl. Electronic Control Board (PWA)
16	7351054	Power Supply, 24V DC
17	7155115	Cover, Brinewell
18	7109871	Brinewell
–	7332204	Brinewell Mounting Hardware Kit (includes Key Nos. 19-21)
19	↑	Wing Nut, 1/4-20
20	↑	Spacer, 3/4" long
21	↑	Screw, 1/4-20 x 1-1/2"
22	7381180	Brine Valve Assembly
–	7331258	Overflow Hose Adaptor Kit (includes Key Nos. 23-25)
23	↑	Grommet
24	↑	Adaptor Elbow
25	↑	Hose Clamp
26	7139999	Drain Hose

■ Not illustrated.

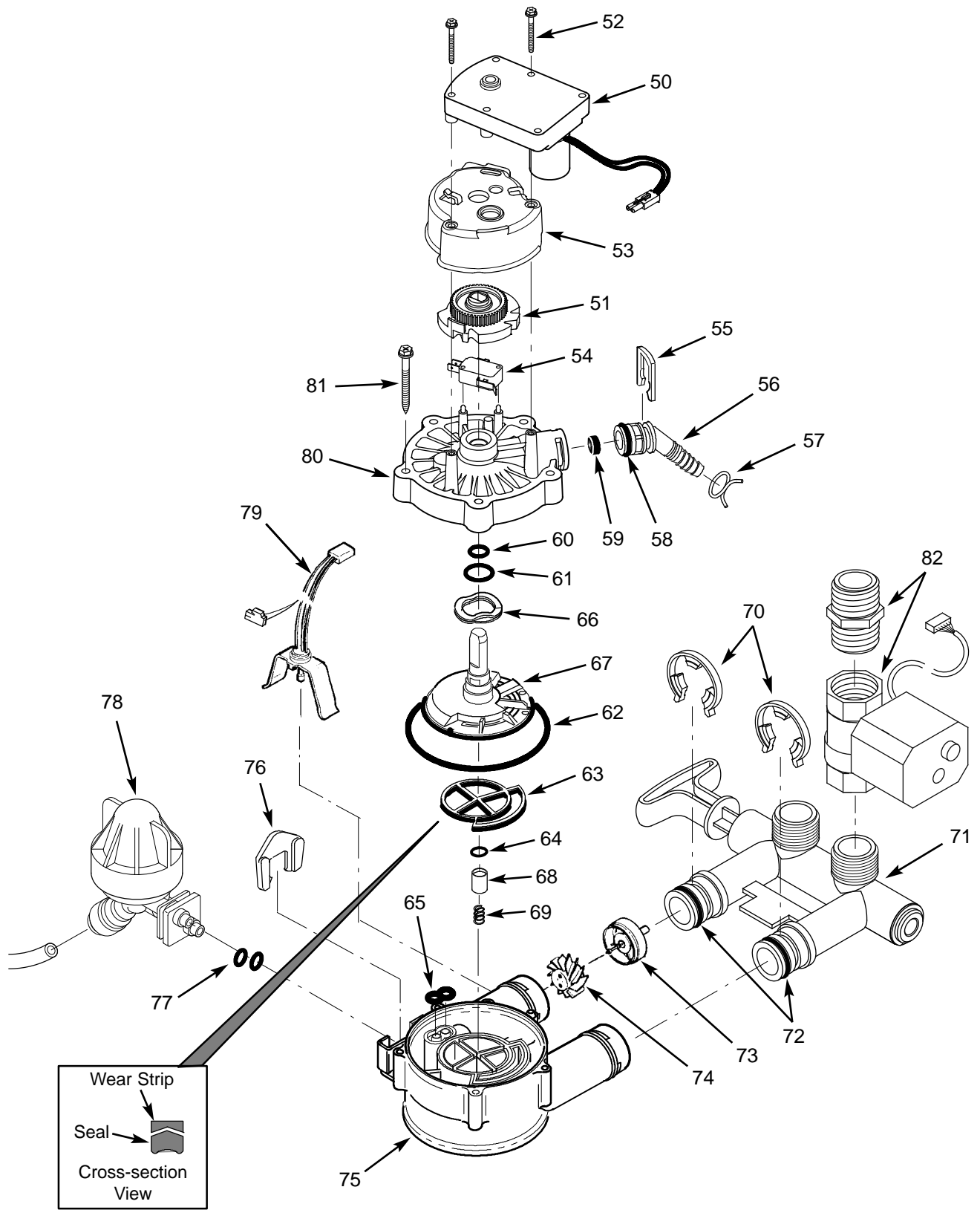
To order repair parts call toll free 1-800-693-1138.

Manufactured and warranted by
Water Channel Partners
2805 Dodd Road, Suite 300
Eagan, MN 55121

Questions? Call Toll Free 1-800-693-1138 or visit **www.ecopure.com**

When you call, please be prepared to provide the model and serial number, found on the rating decal, typically located on the rim below the salt lid hinges.

Valve Exploded View



Valve Parts List

Key No.	Part No.	Description
-	7397864	Motor, Cam & Gear Kit, 3/4" (includes Key Nos. 50-53)
50	↑	Motor
51	↑	Cam & Gear
52	↑	Screw, #6-19 x 1-3/8" (2 pcs.)
53	↑	Motor Mount
54	7030713	Switch
-	7331185	Drain Hose Adaptor Kit (includes Key Nos. 55-59)
55	↑	Clip, Drain
56	↑	Drain Hose Adaptor
57	↑	Hose Clamp
58	↑	O-Ring, 5/8" x 13/16"
59	↑	Flow Plug, 2.0 gpm
-	7129716	Seal Kit (includes Key Nos. 60-65)
60	↑	O-Ring, 7/16" x 5/8"
61	↑	O-Ring, 3/4" x 15/16"
62	↑	O-Ring, 3-3/8" x 3-5/8"
63	↑	Rotor Seal
64	↑	O-Ring, 3/8" x 9/16"
65	↑	Seal, Nozzle & Venturi
66	7082087	Wave Washer
67	7199232	Rotor & Disc

Key No.	Part No.	Description
-	7342665	Drain Plug Kit, 3/4" (includes Key Nos. 64, 68 & 69)
68	↑	Plug, Drain Seal
69	↑	Spring
70	7337563	Clip, 3/4", pack of 4
71	7370286	Bypass Valve Assembly, 3/4", in- cluding 2 O-Rings (See Key No. 72)
72	7337571	O-Ring, 15/16" x 1-3/16", pack of 4
-	7113040	Turbine & Support Assembly, including 2 O-Rings (See Key No. 72) & 1 ea. of Key Nos. 73 & 74
73	↑	Turbine Support & Shaft
74	↑	Turbine
75	7082053	Valve Body
-	7398674	Nozzle & Venturi Kit (includes Key Nos. 76-78)
76	↑	Retainer, Nozzle & Venturi
77	↑	O-Ring, 1/4" x 3/8" (2 pcs.)
78	↑	Nozzle & Venturi Assembly
79	7309803	Wire Harness, Sensor
80	7337466	Valve Cover
81	7342657	Screw, #10-14 x 2", pack of 5
82	7388598	Motorized Water Shutoff Valve * with 1" NPT to 1" NPT Pipe Nipple

* Not included with softener.

To order repair parts call toll free 1-800-693-1138.

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When you call, please be prepared to provide the model and serial number,
found on the rating decal, typically located on the rim below the salt lid hinges.

EXTEND YOUR WARRANTY: Use EcoPure EPCL Water Softener Cleaner

The factory warranty for your water softener is shown below. The one year full warranty period on parts and labor can be extended to five (5) years from the date the product is delivered if you use EcoPure EPCL Water Softener Cleaner on your system. Use one bottle of EcoPure EPCL Water Softener Cleaner, as directed, every four months from the date the water softener is delivered. Retain proof of purchase of EcoPure EPCL Water Softener Cleaner to validate any warranty claim after the first year. Purchase of no more than three (3) bottles of EcoPure EPCL Water Softener Cleaner in a 12 month period may be applied toward compliance with this warranty. Use of any water softener additive other than EcoPure EPCL will not provide extended warranty coverage.

WATER SOFTENER WARRANTY - MODEL EPW140

Warrantor guarantees to the original purchaser when the product is purchased from an authorized dealer, and when installed and maintained in accordance with the instructions, that:

One Year Full Warranty:

- For a period of one (1) year from the date the product is delivered, all parts will be free from defects in materials and workmanship and will perform in accordance with their written specifications.
- For a period of one (1) year from the date the product is delivered, labor to repair or replace any part determined by Warrantor to be defective in materials or workmanship, will be provided at no additional cost.

Limited Warranties:

- For a period of ten (10) years from the date the product is delivered, the salt storage tank and fiberglass resin/mineral tank will not rust, corrode, leak, burst, or in any other manner, fail to perform in accordance with their written specifications.
- For a period of three (3) years from the date the product is delivered, the electronic control board will be free of defects in materials and workmanship and will perform in accordance with its written specifications.

If, during such respective period, a part proves to be defective, Warrantor will ship a replacement part, directly to your home, without charge. If a repair or replacement part is unavailable, Warrantor may refund the original purchase price. After the first year, labor necessary to maintain this product is not covered by the product warranty.

If you have questions regarding a warranted product, need assistance with installation or troubleshooting, wish to order a part or report a warranty issue, we are just a phone call away. SIMPLY DIAL 1-800-693-1138 for assistance.

This water softener is manufactured by Water Channel Partners, 2805 Dodd Road, Suite 300, Eagan, MN 55121.

General Provisions

The above warranties are effective provided the water softener is operated at water pressures not exceeding 125 psi, and at water temperatures not exceeding 120°F; provided further that the water softener is not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided further that the water softener is not damaged as the result of any force of nature such as, but not limited to, flood, hurricane, tornado or earthquake.

The limited warranty does not cover damage due to: (a) transportation, (b) storage, (c) improper use, (d) failure to follow the product instructions or to perform any preventive maintenance, (e) modifications, (f) unauthorized repair, (g) normal wear and tear, or (h) external causes such as accidents, abuse, or other actions or events beyond Warrantor's reasonable control. Use of aftermarket, used, or non-manufacturer provided parts will void all warranties. Warranty does not cover failures due to improper product installation. Warrantor is excused if failure to perform its warranty obligations is the result of strikes, government regulation, materials shortages, or other circumstances beyond its control.

THERE ARE NO WARRANTIES ON THE WATER SOFTENER BEYOND THOSE SPECIFICALLY DESCRIBED ABOVE. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED TO THE EXTENT THEY MIGHT EXTEND BEYOND THE ABOVE PERIODS. THE SOLE OBLIGATION OF WARRANTOR UNDER THESE WARRANTIES IS TO REPLACE OR REPAIR THE COMPONENT OR PART WHICH PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD, AND WARRANTOR IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. NO DEALER, AGENT, REPRESENTATIVE, OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTIES EXPRESSLY DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. This warranty applies to consumer-owned installations only.