# Whirlpool®

# Model WHESFC

How to install, operate and maintain your Water Conditioner

#### PRODUCT REGISTRATION AND WARRANTY EXTENSION

Please register your product on whirlpoolwatersolutions.com

See warranty page for extended warranty details.



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

#### 1-866-986-3223

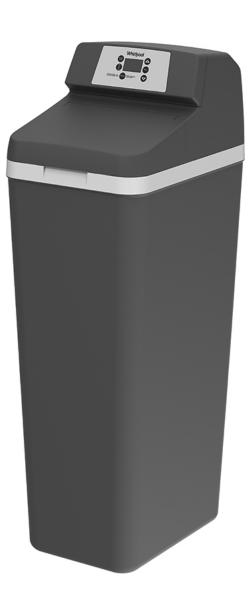
or visit whirlpoolwatersolutions.com

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

System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of chlorine taste and odor, and Standard 44 for hardness reduction and efficiency, and certified to NSF/ANSI/CAN Standard 372.



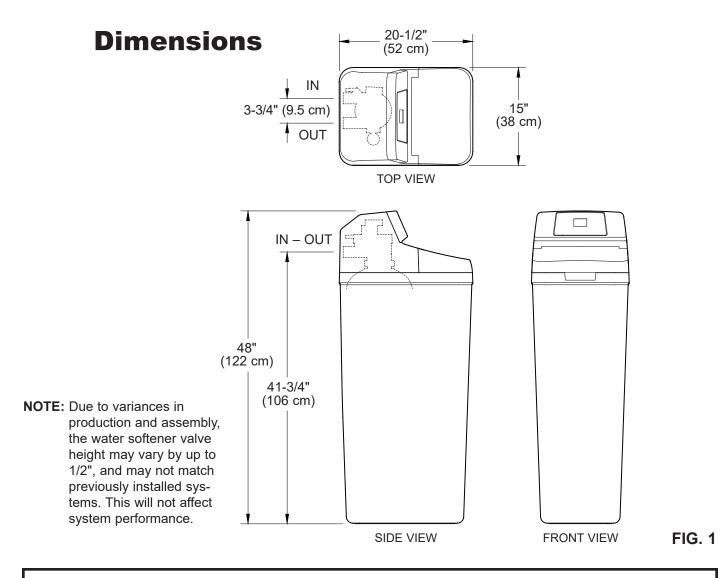
Manufactured and warranted by Water Channel Partners 1890 Woodlane Drive Woodbury, MN 55125



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#### Do not return the water conditioner to store.

If you have any questions, or there are missing parts or damage, please call **Toll Free 1-866-986-3223** or visit **www.whirlpoolwatersolutions.com** 

## **Specifications & Performance Claims**

This model is efficiency rated. The efficiency rating is valid only at the minimum salt dose. This system has a demand initiated regeneration (D.I.R.) feature that complies with specific performance specifications intended to minimize the amount of regenerant brine and water used in their operation.

This water treatment system has a rated softener efficiency of not less than 3,350 grains of total hardness exchange per pound of salt (based on sodium chloride) and shall not deliver more salt than its listed rating or be operated at a sustained maximum service flow rate greater than its listed rating. This system has been proven to deliver soft water for at least ten continuous minutes at the rated service flow rate. The rated salt efficiency is measured by laboratory tests described in NSF/ANSI Standard 44. These tests represent the maximum possible efficiency that the system can achieve. Operational efficiency is the actual efficiency after the system has been installed. It is typically less than the rated efficiency, due to individual application factors including water hardness, water usage, and other contaminants that reduce a softener's capacity.

While testing was performed under standard laboratory conditions, actual performance of the system may vary based on local water conditions. This system has been tested according to NSF/ANSI Standard 42 for the reduction of chlorine taste and odor. The concentration of the indicated substance in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI Standard 42.

SPECIFICATIONS		
		Model WHESFC
Model Code		LFCP
Rated Softening Capacity (Grains @ Salt Dose)		11,000 @ 2.6 lbs 24,700 @ 7.8 lbs 31,100 @ 13.4 lbs
Rated Efficiency (Grains/Pound of Salt @ Minimum	Salt Dose)	4,230 @ 2.6 lbs
Water Used During Regeneration @ Minimum Salt I	Dose	4.3 gal. / 1,000 grains
Total Water Used Per Regeneration @ Maximum Sa	alt Dose	54.7 gallons
Rated Service Flow Rate		8.0 gpm
Amount of High Capacity Ion Exchange Resin	0.98 cu. ft.	
Pressure Drop at Rated Service Flow	6.5 psig	
Water Supply Max. Hardness	120 gpg	
Water Supply Max. Clear Water Iron	3 ppm*	
Water Pressure Limits (min. / max.)	20 - 125 psi	
Water Temperature Limits (min. / max.)	40 - 100 °F	
Minimum Water Supply Flow Rate	3 gpm	
Intermittent Flow @ 15 PSI	13.7 gpm**	
Maximum Drain Flow Rate	2 gpm	
Salt Storage Capacity	200 lbs	
0. 0. Rated Capacity at Chlorine Concentration*** of: 1.( 1.3 2.0	5 ppm	2,280,000 gal.§ 1,520,000 gal.§ 1,140,000 gal.§ 760,000 gal.§ 570,000 gal.

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

\*\*Intermittent flow rate does not represent the maximum service flow rate used for determining the conditioner's rated capacity and efficiency. Continuous operation at flow rates greater than the service flow rate may affect capacity and efficiency performance.

\*\*\*Typical residential chlorine concentration is 0.5 to 1.0 ppm.

§ From independent laboratory test data.

This system conforms to NSF/ANSI Standards 42 & 44 for the specific performance claims as verified and substantiated by test data.

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

continued on next page

## **Specifications & Performance Claims**

continued from previous page

PERFORMANCE CLAIMS			
Substance	Influent Challenge Level	Reduction Requirement	
Chlorine	2.0 ±10% mg/L	50%	

## Water Conditioner Safety

#### Your safety and the safety of others are very important.

We have provided many safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING" These words mean:

**A DANGER** 

## **A WARNING**

You can be killed or seriously injured if you don't <u>immediately</u> follow instructions.

You can be killed or seriously injured if you don't follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

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.

## **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 daytime pressure is over 80 psi, nighttime pressure may exceed the maximum. Use a pressure reducing valve if necessary (Adding a pressure reducing valve may reduce the flow). Failure to use a pressure reducing valve may cause damage to the system, resulting in flooding and damage to property. 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 24 V 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 120 V, 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.

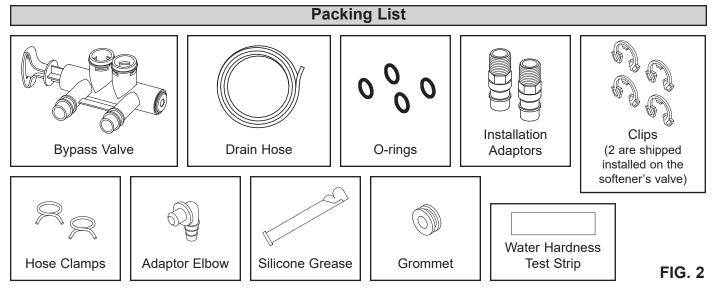


European Directive 2002/96/EC requires all electrical and electronic equipment to be disposed of according to Waste Electrical and Electronic Equipment (WEEE) requirements. This directive or similar laws are in place nationally and can vary from region to region. Please refer to your state and local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

#### Questions? Call Toll Free 1-866-986-3223 or visit whirlpoolwatersolutions.com

## **Inspect Shipment**

The parts required to assemble and install the water conditioner are included with the unit. Thoroughly check the water conditioner 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 the loss of small parts, we suggest you keep the small parts in the parts bag until you are ready to use them.



## **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 conditioner.

- Do not locate the water conditioner where freezing temperatures occur. The temperature of the water supply to the conditioner must be 40-100°F. Do not install on hot water. Freezing temperatures or hot water damage voids the warranty.
- To condition all water in the home, install the water conditioner 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 conditioner works on 24 V DC electrical power, supplied by a direct plug-in power supply (included). Provide nearby a 120 V, 60 Hz electrical outlet in accordance with NEC and local codes.
- Always install the water conditioner between the water inlet and water heater. Any other installed water conditioning equipment should be installed between the water inlet and water conditioner (See Figure 4 below).
- Avoid installing in direct sunlight. Excessive sun heat may cause distortion or other damage to non-metallic parts.

#### PLUMBING CODES

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

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.

#### AIR GAP REQUIREMENTS

A drain is needed for regeneration water (See Figure 3). A floor drain, close to the water conditioner, 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 the backflow of sewer water into the water conditioner. Do not put the end of the drain hose into the drain.

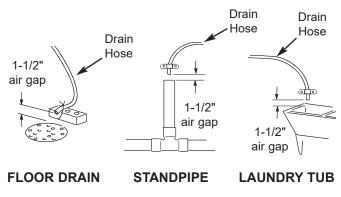
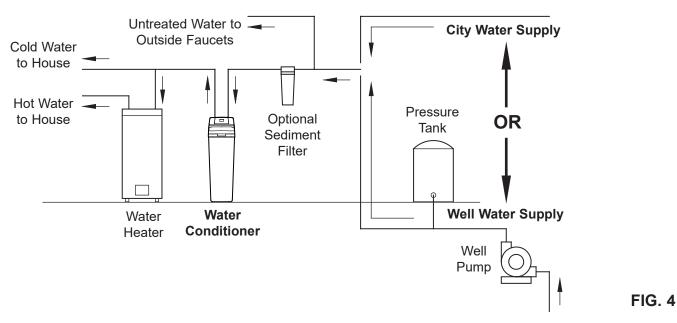


FIG. 3



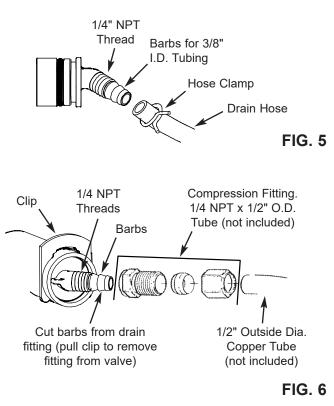
#### THE PROPER ORDER TO INSTALL WATER TREATMENT EQUIPMENT

## **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 the 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:** Make the valve drain line as short and direct as possible.



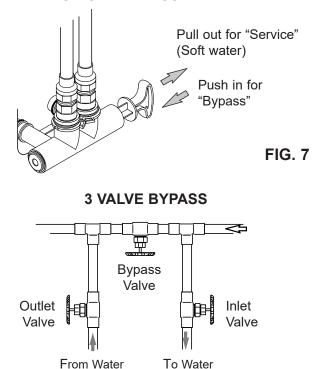
#### **INLET / OUTLET PLUMBING OPTIONS**

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 the 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

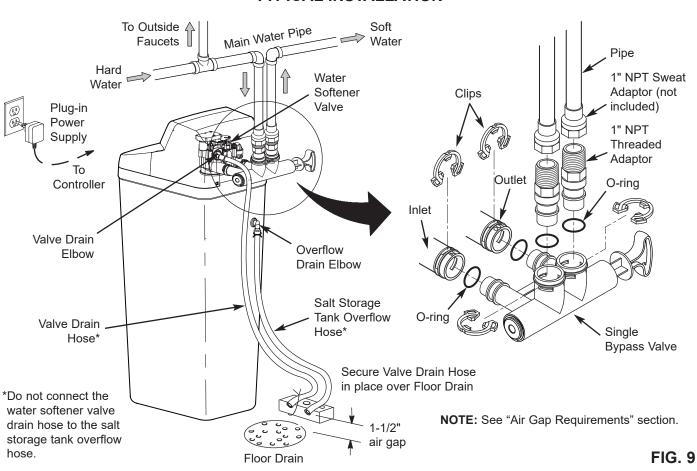
**IMPORTANT:** Do not solder with plumbing attached to the single bypass valve. Soldering heat will damage the plastic valve.



Conditioner

Conditioner

SINGLE BYPASS VALVE



**TYPICAL INSTALLATION** 

#### TURN OFF WATER SUPPLY

- 1. Close the main water supply valve, located near the well pump or water meter.
- 2. 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.

## INSTALL THE BRINE TANK OVERFLOW ELBOW

Install the brine tank overflow grommet and elbow in the 13/16" diameter hole in the back of the salt storage tank sidewall.

**NOTE:** The brine tank overflow elbow accepts either 1/2" or 3/8" I.D. hose.

# MOVE THE WATER CONDITIONER INTO PLACE

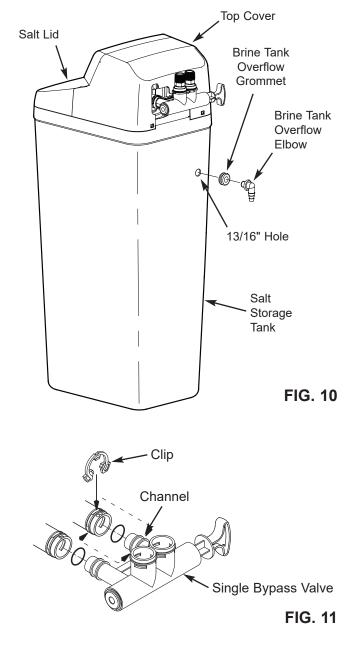
## <u> A WARNING</u>

**Excessive Weight Hazard** 

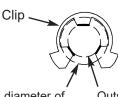
Use two or more people to move and install or uninstall water softener.

Failure to do so can result in back or other injury.

- **1**. Move the water conditioner 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 conditioner. 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 conditioner valve inlet and outlet ports.
- **3**. Make sure the turbine assembly spins freely in the "out" port of the valve.
- **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 conditioner valve as far as it will go. Snap the two large holding clips into place, from the top down as shown in Figures 11 & 12.
- **IMPORTANT:** Be sure the clips snap firmly into place so the single bypass valve will not pull out.



#### CORRECT ASSEMBLY



Outside diameter of water conditioner valve inlet & outlet Outside diameter of clip channel on single bypass valve

FIG. 12

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



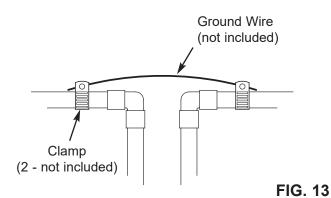
Electrical Shock Hazard Prior to installation on metallic plumbing, securely install two grounding clamps and a #4 copper wire per installation instructions.

Failure to follow these instructions can result in death or electrical shock.

# GROUNDING INFORMATION (for Installations on Metal Pipe)

The house main incoming water pipe is often used to ground electrical outlets in the home. Grounding protects you from electrical shock. Installing the water conditioner with a plastic bypass valve will break this ground. Before beginning installation, purchase and securely install two grounding clamps and a #4 copper wire across the location where the conditioner will be, tightly clamping it at both ends, as shown in Figure 13.

**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.



COMPLETE INLET AND OUTLET PLUMBING

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

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

**NOTE:** Inlet and outlet are marked on the water conditioner 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 conditioner valve inlet and outlet. Stress from misaligned or unsupported plumbing may cause damage to the system.

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

#### **INSTALL VALVE DRAIN HOSE**

- 1. Measure, cut to needed length and connect the 3/8" drain line (provided) to the water conditioner valve drain fitting. Use a hose clamp to hold the hose in place.
- **NOTE:** Make the valve drain line as short and direct as possible.
- **IMPORTANT:** If codes require a rigid drain line see "Valve Drain requirements" section.
- Route the drain hose or copper tubing to the floor drain. Secure drain hose. This will prevent "whipping" during regenerations. See "Air Gap Requirements" section.

# INSTALL SALT STORAGE TANK OVERFLOW HOSE

- 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 conditioner, do not connect the water conditioner valve drain tubing to the salt storage tank overflow hose.

# ADD WATER AND SALT TO THE SALT STORAGE TANK

## **A WARNING**

**Excessive Weight Hazard** 

Use two or more people to move and lift salt bags.

Failure to do so can result in back or other injury.

- **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 conditioner wiring may be moved or jostled from place. 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.

- **1**. Plug the power supply into an electrical outlet that is not controlled by a switch.
- **NOTE:** The water heater is filled with hard water and, as hot water is used, it will refill 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 is over. Then, drain the water heater (following instructions for water heater) until water runs cold.

#### PROGRAM THE CONTROLLER

- 1. Install the system's top cover and salt lid.
- 2. Complete the programming steps on pages 13 & 14.

#### **RINSE OUT CARBON FINES**

Small particles of carbon filtration material are generated during manufacturing and shipping, which will exit the media tank with the first water flow. These carbon "fines" are not harmful, but give the water a gray color and should be rinsed down the drain before any water from the conditioner is directed to the home's faucets or water heater.

- **IMPORTANT:** To avoid water or air pressure damage to conditioner inner parts, and to flush pipe chips or other residue from the water pipes, be sure to do the following steps exactly as instructed.
- Make sure the water conditioner's valve drain hose is hooked up and the open end directed to a floor drain, laundry tub or other suitable type of drain.
- 2. The system should be connected to electrical power.
- **3**. Place bypass valve(s) in "bypass" position (see Figures 7 & 8). On a single valve, slide the stem inward to bypass. On a 3-valve bypass, close the inlet and outlet valves and open the bypass valve.
- 4. Fully open the house main water pipe shutoff valve.
- **5**. Initiate a regeneration by pressing and holding for 3 seconds the RECHARGE button (see Figure 15 on page 13). The valve motor will start running and the valve will advance to the "Fill" position.
- **6**. After you hear the valve motor stop running (valve in "Fill" position), press, but do not hold, the RECHARGE button. The valve will advance to the "Brine" position.
- **7**. After you hear the valve motor stop running (valve in "Brine" position), press, but do not hold, the RECHARGE button. The valve will advance to the "Backwash" position.
- 8. Once the unit is in backwash, place bypass valve(s) in SERVICE, EXACTLY as follows:
  a. Single Bypass Valve: Slowly, slide the valve stem outward toward service, pausing several times to allow the system to pressurize gradually.
  b. 3-Valve Bypass: Fully close the bypass valve and open the outlet valve. Slowly open the inlet valve, pausing several times to allow the system to pressurize gradually.
- Let the water conditioner complete the backwash and fast rinse cycles (takes about 20 minutes). When the regeneration ends, the conditioner's valve returns to the service position.

# SANITIZE THE WATER CONDITIONER / SANITIZE AFTER SERVICE

- 1. Open the salt lid and pour about 3 oz. (6 tablespoons) of household bleach into the softener brinewell.
- 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 conditioner. 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 conditioner, and allow 190 liters of water to pass through the system. This should take at least 20 minutes. Close the faucet.

#### TEST FOR LEAKS

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

- **1**. Fully open two or more softened cold water faucets close to the water conditioner, located downstream from the water conditioner.
- **2**. Place the bypass valve (single or 3 valve) into the "bypass" position. See Figures 6 & 7 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 conditioner 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 conditioner 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 conditioner'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 conditioner's inlet or outlet, push the single bypass valve body toward the conditioner (see Figure 14). Improper removal may damage clips. Do not reinstall damaged clips.

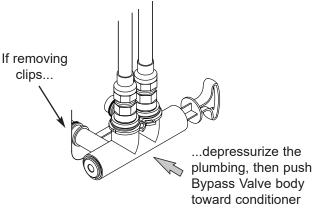
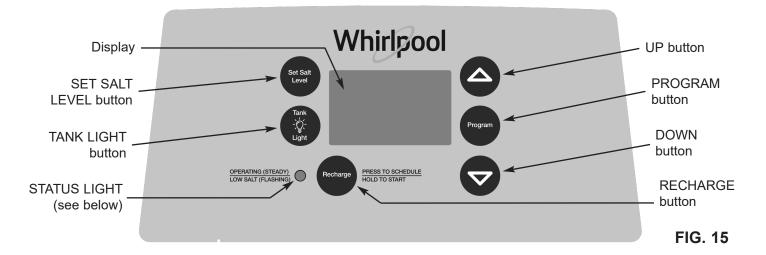


FIG. 14

## **Programming the Water Conditioner**



#### STATUS LIGHT

When the water conditioner is connected to electrical power, the status light on the control panel will operate as follows:

- Light flashing slowly, along with the salt level indicators in the display - The salt monitor system indicates a low salt level and needs to be set. See "Set Salt Level" on Page 15.
- Light flashing slowly, along with the words "SCHEDULED CLEAN" in the display - Four months have elapsed on the system's timer since start up or the last reset. This is a reminder to use Whirlpool® WHE-WSC Water Softener Cleanser three times a year. To reset the timer, press any button on the control panel and the flashing words will disappear. The status light will stop flashing, unless the system is also low on salt (see above).
- Light flashing rapidly, with "CURRENT TIME" shown in the display and the clock flashing slowly - The present time needs to be set, either during initial start up or after a long power outage. See "Set Time of Day", at right.
- Light flashing rapidly, with "Err" shown in the display The electronic self-diagnostics have detected a problem. See "Troubleshooting" on Page 20.
- Light on steady (not flashing) The system has power applied and does not require any attention.

#### **PROGRAM THE CONDITIONER**

When the power supply is plugged into the electrical outlet, the model code (LFCP) and a software version number (example: J3.9), are briefly shown in the display. Then the words "CURRENT TIME" appear and 12:00 PM begins to flash.

#### SET TIME OF DAY

If the words "CURRENT TIME" do not show in the display, press the PROGRAM button until they do.

 Press the △ 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.



#### FIG. 16

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

continued on the next page

#### Questions? Call Toll Free 1-866-986-3223 or visit whirlpoolwatersolutions.com

## **Programming the Water Conditioner**

#### SET WATER HARDNESS NUMBER

1. Press the PROGRAM button once again to display a flashing "25" and the word "HARDNESS".



2. Press the  $\bigtriangleup$  UP or  $\bigtriangledown$  DOWN buttons to set your water's hardness number.

**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.

20 gpg hardness

2 ppm iron x 5 = 10 <u>+10</u> (times) 30 HARDNESS NUMBER

#### SET RECHARGE (REGENERATION) TIME

1. Press the PROGRAM button once again to display a flashing "2:00 AM" and the words "RECHARGE TIME". This is a good time for the recharge to start in most households, because water is not in use.



2. If you want to change the recharge start time, press the  $\triangle$  UP or  $\bigtriangledown$  DOWN buttons until the desired time shows. Be sure AM or PM is correct.

#### SET SALT TYPE

1. Press the PROGRAM button once again to display a flashing "nACL".



FIG. 19

Salt Type allows you to choose between sodium chloride (NaCl), which is regular softener salt, or potassium chloride (KCl), which is an alternative to sodium chloride. KCl (potassium chloride) may be used if the user of the water conditioner is on a sodium restricted diet and is concerned about the amount of sodium in the water supply.

KCl should be used in accordance with the following steps to help give you years of maintenance free service.

Place only one bag at a time of KCl into your conditioner (the salt storage tank should contain no more than 60 pounds of KCl at any one time).

- **NOTE:** A conditioner using KCl should not be located in areas with high temperature changes or high humidity (KCl may harden in these environments and make the conditioner inoperable).
- 2. Check the brine tank and brinewell (black tube in salt storage tank) monthly. If hardening is present, pour small amounts of warm water on hardened areas until they loosen.
- **4**. Press the PROGRAM button once again to return to normal operating display.

#### START A RECHARGE

- 1. Press the RECHARGE button and hold for three seconds, until "RECHARGE" begins to flash in the display, starting a recharge. This recharge draws the sanitizing bleach into and through the water conditioner. Any air remaining in the water conditioner is purged to the drain. During this time, periodically check for leaks.
- **NOTE:** As with all other water system applications, leaks may occur. Leaks may not be immediately apparent. Recheck for leaks 24 hours after the first recharge cycle is complete.

#### RECHARGE

The RECHARGE button is used to initiate an immediate recharge.

1. Press and hold the RECHARGE button until the words "RECHARGE", "SERVICE" and "FILL" flash in the display.



RECHARGE initiated

The conditioner enters the fill cycle of regeneration right away. "RECHARGE" will flash during the regeneration. When completed, full water conditioning capacity is restored. While water conditioner is running a recharge, the time remaining until the recharge is completed will show in the display during all cycles except for the Fill cycle.

**NOTE**: Avoid using hot water while the conditioner is regenerating, because the water heater will refill with bypass hard water.

#### **RECHARGE SCHEDULED**

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

1. Press and release (do not hold) the RECHARGE button.



FIG. 21

**FIG. 20** 

RECHARGE scheduled

The words "RECHARGE SCHEDULED" flash in the display, and the conditioner will recharge at the next recharge time. The word "RECHARGE" will flash during the regeneration. When completed, full water conditioning capacity is restored.

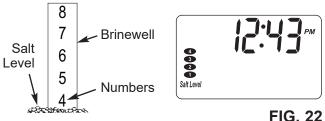
#### SET SALT LEVEL

The water conditioner has a salt monitor indicator light to remind you to add salt to the storage tank.

**NOTE:** You must set salt level each time salt is added to the water conditioner.

To set this monitor system:

- **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. Observe the highest number the leveled salt is at, or closest to.
- Press the SET SALT LEVEL button until black ovals correspond to the salt level number (See Figure 22). At level 2 or below, the "Low Salt Level" light will flash.



If you want to turn the salt monitor off, press the SET SALT LEVEL button until "SALT LEVEL OFF" shows



FIG. 23

#### TANK LIGHT

in the display (See Figure 23).

The water conditioner is equipped with a tank light for viewing the salt level in the brine tank. Push the tank light button on the electronic control once, and the tank light will turn on. Pushing the tank light button again will turn the light off. The tank light will automatically turn off after a period of 15 minutes if the tank light button is not used to turn it off.



#### SALT EFFICIENCY

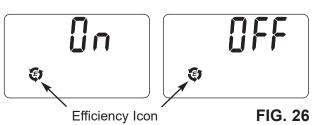
When this feature is ON, the water conditioner will operate at salt efficiencies of 4000 grains of hardness per pound of salt or higher (May recharge more often using smaller salt dosage and less water). The conditioner is shipped with this feature set OFF.

1. Press and hold the PROGRAM button until the screen in Figure 25 is displayed. Once in this display, press the PROGRAM button once and one of the two displays in Figure 26 is shown.



FIG. 25

 Press the △ UP or ▽ DOWN buttons to set ON or OFF. When set to ON, the efficiency icon will be displayed in the lower left hand corner of the normal run display.



**3**. Press the PROGRAM button five times to return to the normal run display.

In the state of California: You must turn the Salt Efficiency Feature ON. This may initiate more frequent recharges. However, it will operate at 4,000 grains per pound of salt or higher.

#### **CLEAN / CLEAR WATER IRON REDUCTION**

This feature is beneficial on water supplies containing ferrous (clear water) iron. The default setting is OFF. When this feature is set to ON, an additional 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 set this feature OFF if your water supply does not contain iron or sediments.

1. Press and hold the PROGRAM button until the screen in Figure 25 is displayed. Once in this display, press the PROGRAM button twice and one of the two displays in Figure 27 is shown.



```
FIG. 27
```

- 2. Press the  $\bigtriangleup$  UP or  $\bigtriangledown$  DOWN buttons to set ON or OFF.
- **3**. Press the PROGRAM button four times to return to the normal run display.

#### **CLEAN FEATURE MINUTES**

The Clean / Clear Water Iron Reduction feature (described above) may be adjusted, from 1 to 15 minutes in length. To change this cycle time, use the UP button to increase the time, or the DOWN button to shorten the time. The default value for this feature depends on the model.

1. Press and hold the PROGRAM button until the screen in Figure 25 is displayed. Once in this display, press the PROGRAM button three times and the display in Figure 28 is shown.

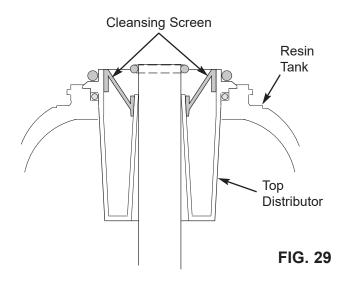


- 2. Press the  $\bigtriangleup$  UP or  $\bigtriangledown$  DOWN buttons to set the number of minutes.
- **3**. Press the PROGRAM button three times to return to the normal run display.

#### **CLEANSING FEATURE**

The cleansing feature keeps larger particles of sediment from entering the home's plumbing system. As water passes through the softener, the larger sediment particles are collected in the integrated basket and then rinsed to the drain before each regeneration. The cleansing feature provides added protection for water using appliances by reducing the chance of larger particles entering the various products valves and screens. The "Clean Feature" may be turned ON to provide an extra backwash that will help keep the cleansing screen clean. The default is OFF.

**IMPORTANT:** The cleansing feature is not intended to replace pretreatment filtration. For problem water applications, additional sediment filtration is recommended.



#### MAXIMUM DAYS BETWEEN REGENERATIONS

The water conditioner automatically controls regeneration frequency. This provides the greatest operating efficiency and, under most conditions, this feature should be left in this automatic mode (- - - -). However, you may modify this feature if you want to force a regeneration every set number of days. For example, if your water supply contains clear water iron, you may want the conditioner to regenerate every few days to keep the resin bed clean. The maximum days between recharges may be set from 1 to 15 days, as follows:

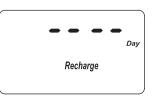
**NOTE:** The conditioner will recharge on its own if needed, even if it is before the set number of days.

1. Press and hold the PROGRAM button until the screen in Figure 30 is displayed. Once in this display, press the PROGRAM button four times and the display in Figure 31 is shown.



FIG. 30

2. Press the  $\bigtriangleup$  UP or  $\bigtriangledown$  DOWN buttons to set the number of days.



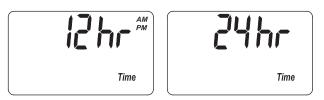
#### FIG. 31

**3**. Press the PROGRAM button two times to return to the normal time of day screen.

#### 12 OR 24 HOUR CLOCK

All time displays are shown in standard clock time (AM and PM) at the 12 hour default setting. If 24 hour clock displays are desired, follow steps below:

1. Press and hold the PROGRAM button until the screen in Figure 30 is displayed. Once in this display, press the PROGRAM button five times and one of the two displays in Figure 32 is shown.



#### FIG. 32

- 2. Press the  $\bigtriangleup$  UP or  $\bigtriangledown$  DOWN buttons to set the time format.
- **3**. Press the PROGRAM button once again, to return to the normal time of day screen.

#### WATER FLOW INDICATOR

Whenever the conditioner has water flowing from the outlet port, the display will show water droplets scrolling down the right hand side of the screen (See Figure 33). The faster the water flow, the faster the droplets will flash.



Droplets indicate water flow through conditioner

#### POWER OUTAGE MEMORY

If electrical power to the water conditioner is lost, "memory" built into the timer circuitry will keep all settings for several hours. While the power is out, the display is blank and the water conditioner will not regenerate. When electrical power is restored, the following will occur:

Reset the present time only if the display is flashing. The HARDNESS and RECHARGE TIME never require resetting unless a change is desired. Even if the clock is incorrect after a long power outage, the conditioner operates as it should to keep your water soft. However, regenerations may occur at the wrong time of day until you reset the clock to the correct time of day.

## **Routine Maintenance**

#### WATER SOFTENER CLEANSER

The manufacturer recommends that you use Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleanser, as directed, every four months.

Lift the brinewell cover and pour in the entire 16 oz. bottle of Whirlpool<sup>®</sup> Water Softener Cleanser. Press the RECHARGE button and hold for three seconds,

until "RECHARGE" begins to flash in the display. This manual recharge will take about two hours. If taste, odor, or discoloration are detected in the water, manually recharge the conditioner again, then run a cold water faucet immediately downstream of the conditioner until water tastes, smells, and appears normal.

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

## **Routine Maintenance**

#### ADDING SALT

Open 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.

- **NOTE:** If using potassium chloride (KCI), do not fill above level 4 on the brinewell scale.
- **NOTE:** In humid areas, it is best to keep the salt storage level lower, and to refill more often to avoid salt "bridging".

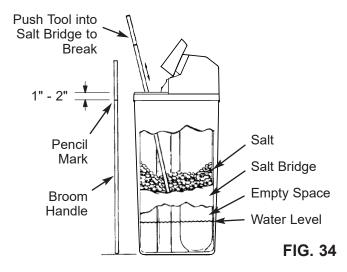
Recommended Salt: Nugget, pellet or coarse solar salts with less than 1% impurities.

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.



#### **CLEANING THE NOZZLE & VENTURI**

A clean nozzle & venturi (See Figure 35) 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.

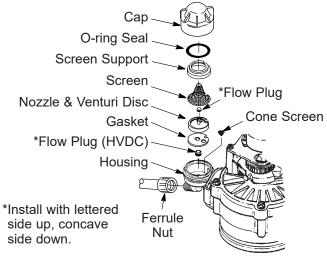


FIG. 35

**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

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.

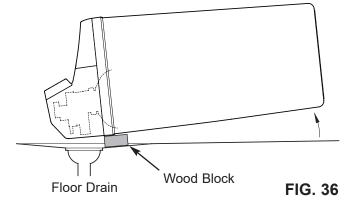
Recharge the softener to reduce the water level in the tank. This will also assure that the softener is completely recharged and ready to provide softened water again. Check the water level in the tank by looking down the brinewell. If the water level does not drop after a recharge, the problem has not been resolved. Call **1-866-986-3223**.

## **Routine Maintenance**

# PROTECT THE WATER SOFTENER FROM FREEZING

If the softener is installed where it could freeze (summer cabin, 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.
- Unplug the power supply at the wall outlet. 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**. Gently 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 36).
- 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.



## **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 & dis- play is blank	<ol> <li>Power supply unplugged at wall outlet, or power cable disconnected from back of elec- tronic board or power supply malfunction.</li> </ol>	Check for loss of power and correct. Reset electronic controls and then use RECHARGE NOW feature.
	<ol> <li>Fuse blown, circuit breaker popped, or cir- cuit switched off (See "Power Outage Memory" on Page 18).</li> </ol>	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 27).
No soft water & salt	1. Salt storage tank "bridged".	Refer to "Breaking a Salt Bridge" section to break.
level not dropping	2. Bypass valve(s) in "bypass" position.	Move bypass valve(s) to "service" position.
No soft water & salt storage tank full of	1. Dirty, plugged or damaged nozzle & venturi assembly	Take apart, clean and inspect nozzle & venturi (See "Cleaning the Nozzle & Venturi" section.
water, water running to	2. Inner valve fault causing leak.	Replace seals and rotor.
drain while unit is in the soft water cycle	3. Valve drain hose is plugged.	Hose must not have any kinks, sharp bends or any water flow blockage (See "Valve Drain Requirements" section.
	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 some-	1. Incorrect time set.	Check and change time setting.
times	2. Incorrect water hardness set.	Refer to "Set Water Hardness" section to set correctly.
	3. Incorrect model code programmed.	Refer to "Program the Water Softener" section 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") section to set.
	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") section to set.
	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 Err1, Err3 or Err4 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 Err5	1. Electronic control malfunction.	Replace electronic control board.

## **Troubleshooting**

#### AUTOMATIC ELECTRONIC DIAGNOSTICS

This water conditioner has a self-diagnostic function for the electrical system (except input power and/or water meter). The water conditioner monitors electronic components and circuits for correct operation. If a malfunction occurs, an error code appears in the display.



FIG. 37

While an error code appears in the display, all buttons are inoperable except the PROGRAM button. PROGRAM remains operational so the service person can perform the Manual Advance Diagnostics, see below, to further isolate the problem.

#### Procedure for removing error code from display:

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

#### MANUAL ADVANCE DIAGNOSTICS

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

Lift off the salt lid, remove the top cover by unlocking the tabs in the back and rocking forward, to observe cam and switch operation during valve rotation.

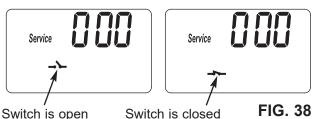
- 1. Press and hold PROGRAM for 3 seconds until "000" shows in the display, then release.
- 2. The 3 digits indicate water meter operation as follows:

000 (steady) = Soft water not in use, and no flow through the meter.

Open a nearby soft water faucet.

000 to 140 (continual) = Repeats for each gallon of water passing through the meter.

3. Symbols in the display indicate POSITION switch operation (See Figure 38).



(Cam rotating)

Switch is open (Cam not rotating)

- 4. Use the RECHARGE button to manually advance the valve into each cycle and check correct switch operation.
- NOTE: Be sure water is in contact with the salt, and not separated by a salt bridge (See "Breaking A Salt Bridge" section).
- 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 riangle UP button to display the number of days this electronic control has had electrical power applied.
  - **b**. Press the  $\nabla$  DOWN button to display the number of regenerations initiated by this electronic control since the code number was entered.
- 6. Press and hold the PROGRAM button until the model code (LFCP) shows in the display. This code identifies the conditioner model. If an incorrect model code is displayed, the conditioner will operate on incorrect configuration data.



FIG. 39

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

## Troubleshooting

FIG. 40

#### **RESETTING TO FACTORY DEFAULTS**

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

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



- **3**. Press the PROGRAM button, and the electronic controller will restart.
- **4**. Set the present time, hardness, etc., as described on pages 13 & 14.

#### 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, first press the PROGRAM button to enter the diagnostic display.
- Press the RECHARGE button and hold in for 3 seconds. RECHARGE begins to flash as the conditioner's valve advances from the service to fill position. Shine a flashlight down the brinewell and 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.

- After observing fill, press the RECHARGE button to move the conditioner'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" section).

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

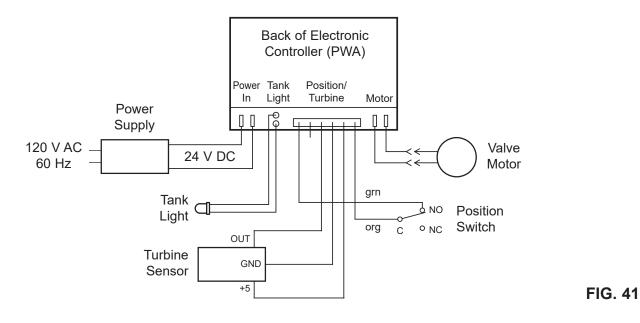
- Dirty or plugged nozzle and venturi, see "Cleaning the Nozzle and Venturi" section.
- Nozzle and venturi not seated on the gasket, or gasket deformed.
- Valve seals leaking (See Troubleshooting).
- Restriction in valve drain, causing a backpressure (bends, kinks, elevated too high, etc.). See "Install Valve Drain Hose" section.
- Obstruction in brine valve or brine tubing.
- **NOTE:** If water system pressure is low, a too-long or elevated drain hose may cause backpressure, stopping brine draw. Avoid drain hose runs longer than 30 feet. Avoid elevating the hose more than 8 feet above the floor.
- **3**. Press the RECHARGE button to move the conditioner'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 conditioner's valve into the fast rinse position. Again look for a fast drain flow. Allow the conditioner 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 conditioner's valve to the service position, press the RECHARGE button.

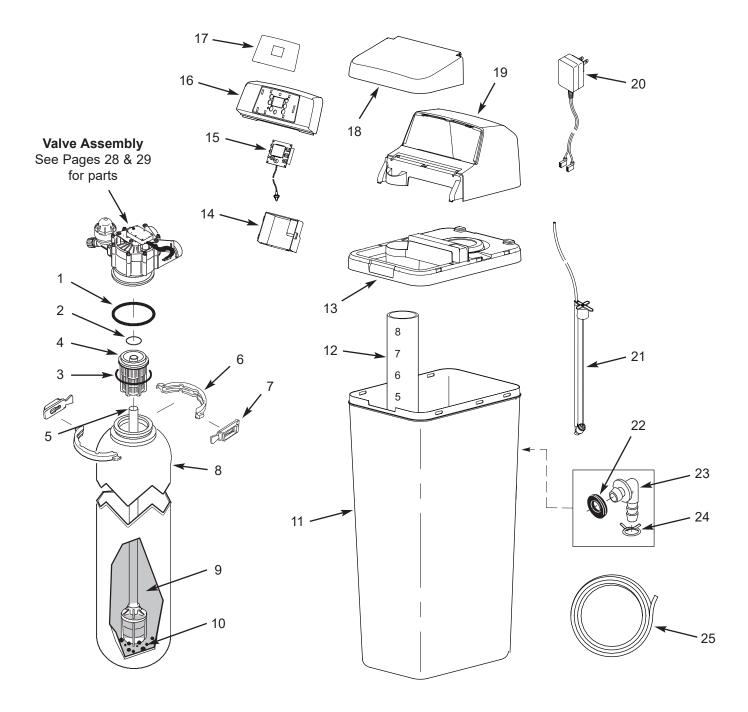
#### Need help troubleshooting? Call Toll Free 1-866-986-3223 or visit whirlpoolwatersolutions.com

## **Wiring Schematic**



## Notes

## **Softener Exploded View**



## **Softener Parts List**

Key No.	Part No.	Description	
_	7112963	Distributor O-Ring Kit (includes Key Nos. 1-3)	
1	$\uparrow$	O-Ring, 2-7/8" x 3-1/4"	
2	$\uparrow$	O-Ring, 13/16" x 1-1/16"	
3	$\uparrow$	O-Ring, 2-3/4" x 3"	
4	7077870	Top Distributor	
5	7327584	Repl. Bottom Distributor	
_	7331177	Tank Neck Clamp Kit (includes 2 ea. of Key Nos. 6 & 7)	
6	$\uparrow$	Clamp Section (2 req.)	
7	$\uparrow$	Retainer Clip (2 req.)	
8	7247996	Repl. Resin Tank, 10" x 40"	
9	0502272	Resin, 1 cu. ft.	
9	7301619	Activated Carbon	
10	7124415	Gravel	
11	7392597	Brine Tank	
12	7137824	Brinewell	

Key No.	Part No.	Description
13	7391355	Rim
14	7391729	Electronics Enclosure, Rear
15	7335163	Repl. Electronic Control Board (PWA)
16	7392628	Faceplate (order decal below)
17	7392026	Faceplate Decal
18	7392610	Salt Lid (order decal below)
	7393763	Instruction Decal
19	7392602	Top Cover
20	7351054	Power Supply, 24 V DC
21	7396834	Brine Valve Assembly
-	7331258	Overflow Hose Adaptor Kit (includes Key Nos. 22-24)
22	$\uparrow$	Grommet
23	$\uparrow$	Adaptor Elbow
24	$\uparrow$	Hose Clamp
25	7139999	Drain Hose

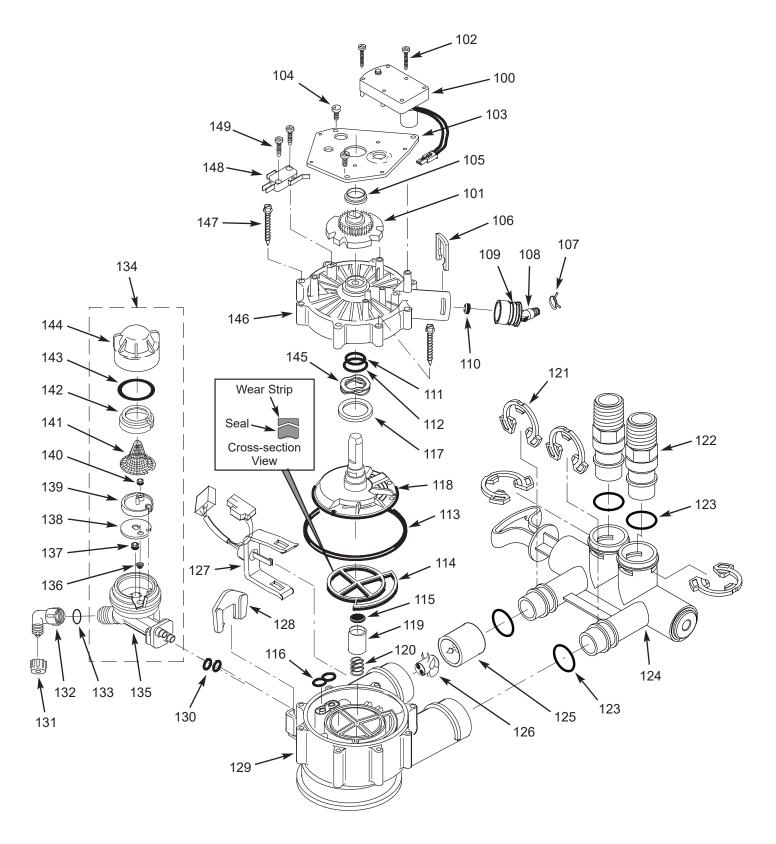
Not illustrated.

To order repair parts call toll free 1-866-986-3223.

Manufactured and warranted by Water Channel Partners 1890 Woodlane Drive Woodbury, MN 55125

#### Questions? Call Toll Free 1-866-986-3223 or visit whirlpoolwatersolutions.com

## **Valve Exploded View**



## **Valve Parts List**

Key No.	Part No.	Description	
_	7384691	Motor, Cam & Gear Kit, 1" (includes Key Nos. 100-102)	
100	$\uparrow$	Motor	
101	$\uparrow$	Cam & Gear	
102	7224087	Screw, #8-32 x 1" (2 req.)	
103	7231393	Motor Plate	
104	0900857	Screw, #6-20 x 3/8" (3 req.)	
105	7171250	Bearing	
_	7331169	Drain Hose Adaptor Kit (includes Key Nos. 106-110)	
106	$\uparrow$	Clip, Drain	
107	$\uparrow$	Hose Clamp	
108	$\uparrow$	Drain Hose Adaptor	
109	$\uparrow$	O-Ring, 15/16" x 1-3/16"	
110	$\uparrow$	Flow Plug, 2.0 gpm	
-	7185487	Seal Kit (includes Key Nos. 111-116)	
111	$\uparrow$	O-Ring, 5/8" x 13/16"	
112	$\uparrow$	O-Ring, 1-1/8" x 1-1/2"	
113	$\uparrow$	O-Ring, 4-1/2" x 4-7/8"	
114	$\uparrow$	Rotor Seal	
115	$\uparrow$	Seal	
116	$\uparrow$	Seal, Nozzle & Venturi	
117	7174313	Bearing, Wave Washer	
118	7185500	Rotor & Disc	
-	7342712	Drain Plug Kit, 1" (includes Key Nos. 115, 119 & 120)	
119	$\uparrow$	Plug, Drain Seal	
120	$\uparrow$	Spring	
121	7337589	Clip, 1", pack of 4	
122	7342704	Installation Adaptor, 1", pack of 2, including 2 ea. Clips & O-Rings (See Key Nos. 121 & 123)	
123	7337597	O-Ring, 1-1/16" x 1-5/16", pack of 4	
124	7214383	Bypass Valve Assembly, 1", including 2 ea. Clips & O-Rings (See Key Nos. 121 & 123)	

No.         Pair No.         Description           -         7290931         Turbine & Support Assembly, including 2 O-Rings (See Key No. 123) & 1 ea. of Key Nos. 125 & 126           125         ↑         Turbine Support & Shaft           126         ↑         Turbine           127         7309811         Wire Harness, Sensor           128         7081201         Retainer, Nozzle & Venturi           129         7171145         Valve Body           130         7342649         O-Ring, 1/4" x 3/8", pack of 2           131         1202600         Nut - Ferrule           132         7120526         Elbow, 90°           133         7292323         O-Ring, 3/16" x 7/16"           134         7257454         Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)           135         ↑         Housing, Nozzle & Venturi           136         ↑         Cone Screen           137         ↑         Flow Plug, .3 gpm           138         ↑         Gasket           139         ↑         Nozzle & Venturi Disc, Blue           140         ↑         Flow Plug, .15 gpm           141         ↑         Screen           142         ↑         Cap			
-       7290931       including 2 O-Rings (See Key No. 123) & 1 ea. of Key Nos. 125 & 126         125       ↑       Turbine Support & Shaft         126       ↑       Turbine         127       7309811       Wire Harness, Sensor         128       7081201       Retainer, Nozzle & Venturi         129       7171145       Valve Body         130       7342649       O-Ring, 1/4" x 3/8", pack of 2         131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         145       7175199	Key No.	Part No.	Description
126 $\uparrow$ Turbine         127       7309811       Wire Harness, Sensor         128       7081201       Retainer, Nozzle & Venturi         129       7171145       Valve Body         130       7342649       O-Ring, 1/4" x 3/8", pack of 2         131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135 $\uparrow$ Housing, Nozzle & Venturi         136 $\uparrow$ Cone Screen         137 $\uparrow$ Flow Plug, .3 gpm         138 $\uparrow$ Gasket         139 $\uparrow$ Nozzle & Venturi Disc, Blue         140 $\uparrow$ Flow Plug, .15 gpm         141 $\uparrow$ Screen         142 $\uparrow$ Screen         143 $\uparrow$ O-Ring, 1-1/8" x 1-3/8"         144 $\uparrow$ Cap         145       7175199       Wave Washer         146       717161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8	_	7290931	including 2 O-Rings (See Key No.
127       7309811       Wire Harness, Sensor         128       7081201       Retainer, Nozzle & Venturi         129       7171145       Valve Body         130       7342649       O-Ring, 1/4" x 3/8", pack of 2         131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       717161       Valve Cover         147 <t< td=""><td>125</td><td><math>\uparrow</math></td><td>Turbine Support &amp; Shaft</td></t<>	125	$\uparrow$	Turbine Support & Shaft
128       7081201       Retainer, Nozzle & Venturi         129       7171145       Valve Body         130       7342649       O-Ring, 1/4" x 3/8", pack of 2         131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148	126	$\uparrow$	Turbine
129       7171145       Valve Body         130       7342649       O-Ring, 1/4" x 3/8", pack of 2         131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	127	7309811	Wire Harness, Sensor
1307342649O-Ring, $1/4" \ge 3/8"$ , pack of 21311202600Nut - Ferrule1327120526Elbow, 90°1337292323O-Ring, $3/16" \ge 7/16"$ 1347257454Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)135 $\wedge$ Housing, Nozzle & Venturi136 $\wedge$ Cone Screen137 $\wedge$ Flow Plug, .3 gpm138 $\wedge$ Gasket139 $\wedge$ Nozzle & Venturi Disc, Blue140 $\wedge$ Flow Plug, .15 gpm141 $\wedge$ Screen142 $\wedge$ Screen Support143 $\wedge$ O-Ring, 1-1/8" $\ge 1-3/8"$ 144 $\wedge$ Cap1457175199Wave Washer1467171161Valve Cover1477342681Screw, #10-14 $\ge 2-5/8"$ , pack of 81487305150Switch	128	7081201	Retainer, Nozzle & Venturi
131       1202600       Nut - Ferrule         132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	129	7171145	Valve Body
132       7120526       Elbow, 90°         133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	130	7342649	O-Ring, 1/4" x 3/8", pack of 2
133       7292323       O-Ring, 3/16" x 7/16"         134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	131	1202600	Nut - Ferrule
134       7257454       Nozzle & Venturi Assembly (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	132	7120526	Elbow, 90°
134       7237434       (incl. Key Nos. 128, 130 & 135-144)         135       ↑       Housing, Nozzle & Venturi         136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	133	7292323	O-Ring, 3/16" x 7/16"
136       ↑       Cone Screen         137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         144       ↑       Cap         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	134	7257454	
137       ↑       Flow Plug, .3 gpm         138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	135	$\uparrow$	Housing, Nozzle & Venturi
138       ↑       Gasket         139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	136	$\uparrow$	Cone Screen
139       ↑       Nozzle & Venturi Disc, Blue         140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	137	$\uparrow$	Flow Plug, .3 gpm
140       ↑       Flow Plug, .15 gpm         141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	138	$\uparrow$	Gasket
141       ↑       Screen         142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	139	$\uparrow$	Nozzle & Venturi Disc, Blue
142       ↑       Screen Support         143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	140	$\uparrow$	Flow Plug, .15 gpm
143       ↑       O-Ring, 1-1/8" x 1-3/8"         144       ↑       Cap         144       ↑       Cap         ■       7298913       Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)         145       7175199       Wave Washer         146       7171161       Valve Cover         147       7342681       Screw, #10-14 x 2-5/8", pack of 8         148       7305150       Switch	141	$\uparrow$	Screen
144         ↑         Cap           ■         7298913         Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)           145         7175199         Wave Washer           146         7171161         Valve Cover           147         7342681         Screw, #10-14 x 2-5/8", pack of 8           148         7305150         Switch	142	$\uparrow$	Screen Support
Image: Process of the second system         Repl. Nozzle, Venturi & Gasket Kit (includes Key Nos. 130, 136, 138, 139, & 143)           145         7175199         Wave Washer           146         7171161         Valve Cover           147         7342681         Screw, #10-14 x 2-5/8", pack of 8           148         7305150         Switch	143	$\uparrow$	O-Ring, 1-1/8" x 1-3/8"
<ul> <li>7298913 (includes Key Nos. 130, 136, 138, 139, &amp; 143)</li> <li>7175199 Wave Washer</li> <li>7171161 Valve Cover</li> <li>7342681 Screw, #10-14 x 2-5/8", pack of 8</li> <li>7305150 Switch</li> </ul>	144	$\uparrow$	Сар
146         7171161         Valve Cover           147         7342681         Screw, #10-14 x 2-5/8", pack of 8           148         7305150         Switch		7298913	(includes Key Nos. 130, 136, 138,
147         7342681         Screw, #10-14 x 2-5/8", pack of 8           148         7305150         Switch	145	7175199	Wave Washer
148 7305150 Switch	146	7171161	Valve Cover
	147	7342681	Screw, #10-14 x 2-5/8", pack of 8
	148	7305150	Switch
149 /140/38 Screw, #4-24 x 3/4" (2 req.)	149	7140738	Screw, #4-24 x 3/4" (2 req.)

Not illustrated

To order repair parts call toll free 1-866-986-3223.

Manufactured and warranted by Water Channel Partners 1890 Woodlane Drive Woodbury, MN 55125

#### Questions? Call Toll Free 1-866-986-3223 or visit whirlpoolwatersolutions.com

#### EXTEND YOUR WARRANTY: Use Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleaner

The factory warranty for your water conditioner is shown below. The two year full warranty period on parts and labor can be extended to ten (10) years from the date the product is delivered if you use Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleaner on your system. Use one bottle of Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleaner, as directed, every four months from the date the water conditioner is delivered. Retain proof of purchase of Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleaner to validate any warranty claim after the second year. Purchase of no more than three (3) bottles of Whirlpool<sup>®</sup> WHE-WSC Water Softener Cleaner in a 12 month period may be applied toward compliance with this warranty. Use of any water softener additive other than Whirlpool<sup>®</sup> WHE-WSC will not provide extended warranty coverage.

#### WATER CONDITIONER WARRANTY - MODEL WHESFC

#### Warrantor: Water Channel Partners, 1890 Woodlane Drive, Woodbury, MN 55125

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:

#### Two Year Full Warranty:

- For a period of two (2) years 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 two (2) years 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 second 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 1-866-986-3223 for assistance.

#### **General Provisions**

The above warranties are effective provided the water softener is operated at water pressures not exceeding 125 psi (8.8 kg/cm<sup>2</sup>), and at water temperatures not exceeding 120°F (49°C); provided further that the water conditioner is not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided further that the water conditioner 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 CONDITIONER 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.

<sup>®</sup>/™ ©2023 Whirlpool. All rights reserved. Manufactured under license by Water Channel Partners, Woodbury, Minnesota. Limited warranty provided by manufacturer.