

Model WHELJ1

Whirlpool Gold®
Central Water
Filtration System

How to install, operate and maintain your Central Water Filtration System

If you have any questions or concerns when installing, operating or maintaining your Central Water Filtration System call our toll free number:

1-866-986-3223

Monday- Friday, 8 AM-9PM EST or visit www.whirlpool.com



System tested and certified by NSF International against NSF/ANSI Standard 42.
See performance data sheet for details.







Powered by an ENERGY STAR® qualified adapter for a better environment

Manufactured and warranted by Ecodyne Water Systems LLC 1890 Woodlane Drive Woodbury, MN 55125 Installation and Operation Manual

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### **Questions?**

Visit www.whirlpool.com or call Toll Free 1-866-986-3223

Monday - Friday, 8 am - 9 pm EST

### **Central Water Filtration System 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:

### **ADANGER**

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

### AWARNING

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.

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

### **Before You Start**

- See "Installation Requirements" section before installing Central Water Filtration System.
- Follow the installation instructions (Failure to install the system properly voids the warranty).
- Before you begin installation, read this entire manual. Then, obtain all the materials and tools you will need to make the installation. Check local plumbing and electrical codes.
- Use only lead-free solder and flux for all sweat-solder connections, as required by federal codes.
- Use care when handling the Central Water Filtration System. Do not turn upside down, drop, or set on sharp protrusions.
- Avoid installing in direct sunlight. Excessive sun heat may cause distortion or other damage to non-metallic parts.
- The Central Water Filtration System has a maximum allowable inlet water pressure of 125 psi and a minimum of 30 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.). If your home is equipped with a back flow preventer, an expansion tank must be installed in accordance with local codes and laws.
- The Central Water Filtration System works on 24 volt, 60 Hz electrical power only, supplied by a direct plug-in transformer (included). Be sure to use the included transformer and plug it into a nominal 120V, 60 cycle household outlet that is properly protected by an overcurrent device such as a circuit breaker or fuse. If transformer is replaced, use only the authorized service, Class II, 24V 10VA transformer.
- Do not use the Central Water Filtration System with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after 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.

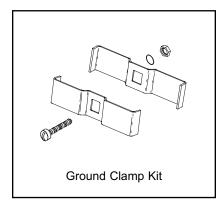
### **Inspect Shipment**

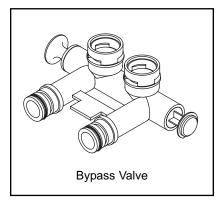
The parts required to assemble and install the Central Water Filtration System are included with the unit.

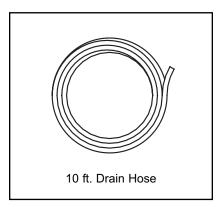
Thoroughly check the Central Water Filtration System for possible shipping damage and parts loss. Also inspect and note any damage to the shipping carton.

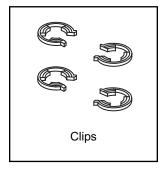
Remove and discard (or recycle) all packing materials. To avoid loss of small parts, we suggest you keep the small parts in the parts bag until you are ready to use them

### **Packing List**











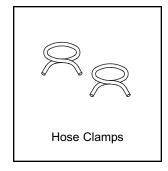




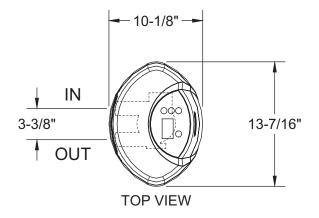
FIG. 1

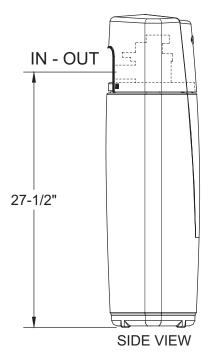
### Do not return the Central Water Filtration System to store.

If you have any questions, or there are missing parts or damage, please call Toll Free 1-866-986-3223, Monday - Friday, 8 am - 9 pm EST.

Before you call please have your model number, and date of purchase ready.

## **Central Water Filtration System Dimensions**





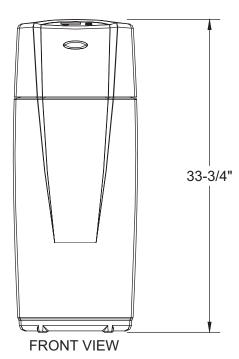


FIG. 2

For future reference, enter the following information.

Model No. \_\_\_\_\_ Code \_\_\_\_\_\_

Serial No. \_\_\_\_\_ Installation Date \_\_\_\_\_\_

Model No. and Serial No. are on the shipping carton and on the registration decal on the Central Water Filtration System. Code is on the registration decal.

### **How a Central Water Filtration System Works**

#### NORMAL OPERATION

During normal operation water enters the Central Water Filtration System and flows through several filtration processes where tastes, odors and sediment\* are reduced.

#### **CLEAN RINSE CYCLE**

A Clean Rinse cycle will automatically be initiated based on how the controller has been programmed. The Clean Rinse cycle lifts and expands the media bed to rejuvenate the media and then repacks the bed for continued use. During the Clean Rinse cycle, dirt, sediment, iron, etc. are flushed from the Central Water Filtration System down the drain.

# APPLICATIONS FOR A CENTRAL WATER FILTRATION SYSTEM

- Do not use the Central Water Filtration System with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- The Central Water Filtration System may not be an effective treatment method for water sources with a hydrogen sulfide problem (rotten egg odor or taste) If your water has hydrogen sulfide, contact a water treatment expert or call 1-866-986-3223.
- The Central Water Filtration System will not remove iron and is not intended to replace iron treatment equipment.
- Although the Central Water Filtration System has sediment\* filter capabilities, additional sediment filtration may be needed in problem water applications

<sup>\*</sup> As shown by independent third party test data.

### **Installation Requirements**

#### **TOOLS NEEDED**

Assemble the required tools before starting installation. Read and follow instructions provided with any tools listed here.

- Screwdriver
- Tape measure
- Pliers

### If using Soldered Copper Pipe

- Tubing cutter
- Lead-free solder and flux
- Propane torch
- Emery cloth, sandpaper or steel wool
- Misc. copper pipe fittings

#### If using Threaded Pipe

- Pipe cutter or hacksaw
- Pipe joint compound
- Threading tool
- Misc. threaded pipe fittings

#### If using CPVC Plastic

- Pipe cutter
- Solvent cement
- Hacksaw
- Primer
- Adjustable wrench

#### If using Other

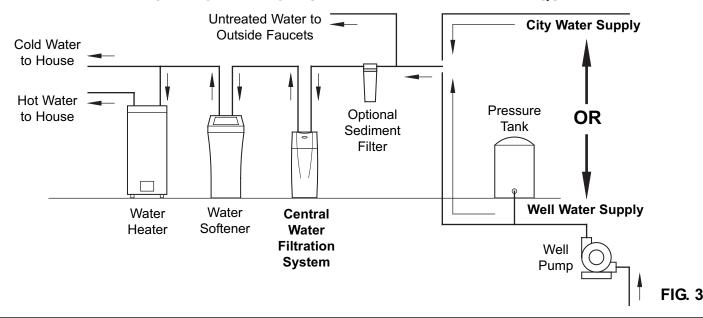
 Other pipe and fittings suitable for potable water as required by piping system manufacturer and local codes and/or ordinances.

### LOCATION REQUIREMENTS

Consider the following when selecting an installation location for the Central Water Filtration System.

- Do not operate the Central Water Filtration System 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 Central Water Filtration System close to the water supply inlet, and before all other plumbing connections, except outside water pipes.
- A nearby drain is needed to carry away Clean Rinse discharge 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. If a drain is not available, it is still possible to operate the Central Water Filtration System in a manual Clean Rinse mode. See "Operating in Manual Clean Rinse Mode." The automatic Clean Rinse must be disabled if the Central Water Filtration System will not be connected to a drain (See Page 8).
- The Central Water Filtration System works on 24 volt, 60 Hz electrical power only, supplied by a direct plug-in transformer (included). Provide an electrical outlet in accordance with NEC and local codes.
- Do not install the Central Water Filtration System on a hot water line (See Figure 3 below).
- Install the Central Water Filtration System between the home's incoming water supply and the water softener, if one is being used (See Figure 3).

### THE PROPER ORDER TO INSTALL WATER TREATMENT EQUIPMENT



### **Installation Requirements**

### **AIR GAP REQUIREMENTS**

A drain is needed for Clean Rinse discharge water. A floor drain, close to the Central Water Filtration System, 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 Central Water Filtration System. Do not put the end of the drain hose into the drain.

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

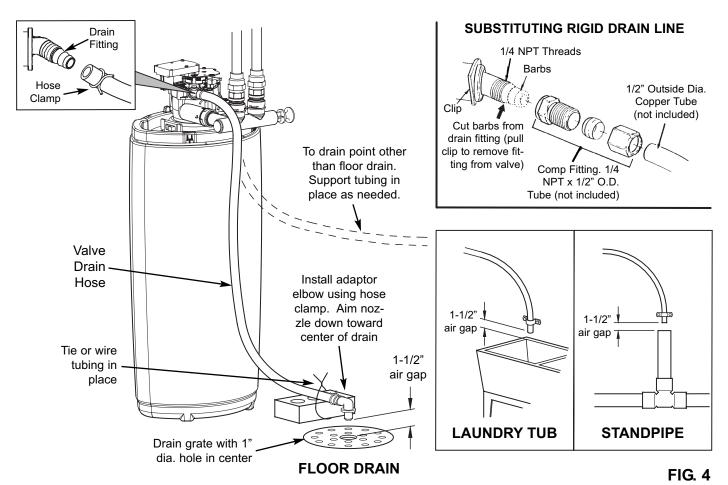
### **VALVE DRAIN REQUIREMENTS**

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 4, below).

**NOTE:** Avoid drain hose runs longer that 30 feet. Make the valve drain line as short and direct as possible.

It is recommended that the Central Water Filtration System be installed near a drain. However, if a drain is not available, it is still possible to operate the Central Water Filtration System in.a manual Clean Rinse mode. See "Operating in Manual Clean Rinse Mode" section. The automatic Clean Rinse function must be disabled if the Central Water Filtration System will not be connected to a drain.

### **CONNECTING VALVE TO DRAIN**



### Plan the Installation

### **INLET - OUTLET PLUMBING OPTIONS**

Always install either a single bypass valve (provided) or, if desired, parts for a 3 valve bypass system (not included) can be purchased and assembled, as shown in Figure 6. Bypass valves allow you to turn off water to the Central Water Filtration System for maintenance if needed, but still have water in house pipes.

#### Use either:

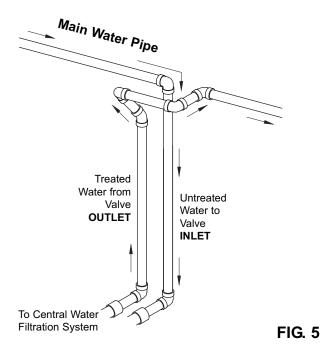
- Copper pipe
- Threaded pipe
- PEX (Crosslinked Polyethylene) pipe
- CPVC plastic pipe
- Other pipe approved for use with potable water

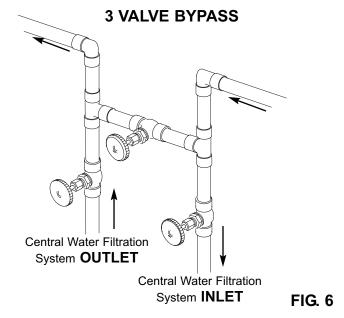
**IMPORTANT:** Do not solder with plumbing attached to installation adapters and single valve bypass. Soldering heat will damage the adapters and valve.

### **CROSS OVER**

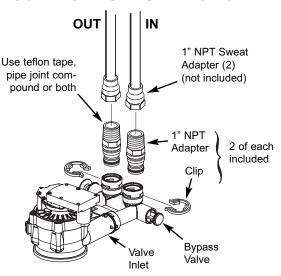
#### In what direction does the water flow?

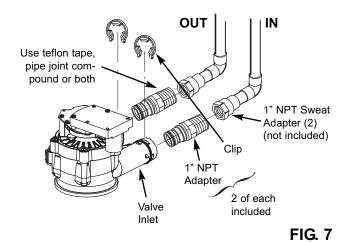
Be sure to plan piping so water flow is to the Central Water Filtration System valve INLET. Plan a crossover if flow is from left to right.





### **CONNECTING PLUMBING TO VALVE**





### **Installation**

#### TURN OFF WATER SUPPLY

- Close the main water supply valve, near the well pump or water meter.
- 2. Open all faucets to drain water from the house pipes.

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

# MOVE THE CENTRAL WATER FILTRATION SYSTEM INTO PLACE

### AWARNING

**Excessive Weight Hazard** 

Use two or more people to move and install Central Water Filtration System.

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

- Move the Central Water Filtration System into installation position. Set it on a level surface. If needed, place the unit on a section of plywood, a minimum of 5/8" thick. Then place shims under the plywood to level the Central Water Filtration System (see Figure 8).
- 2. Remove top cover.
- 3. Hang cover from post on front of rim, as shown in Figure 9. Avoid allowing cover to hang from wires.

# ASSEMBLE 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 Central Water Filtration System valve. Be sure to keep fittings fully together, and pipes squared and straight. Be sure incoming water supply pipe goes to the Central Water Filtration System valve INLET side.

**NOTE:** Inlet and outlet are marked on the valve.

Trace the water flow direction to be sure.

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

#### LEVEL IF NECESSARY

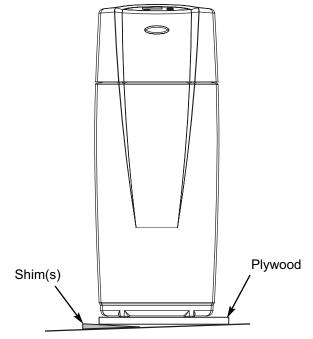


FIG. 8

# REMOVE TOP COVER AND HANG IT FROM POST ON FRONT OF RIM

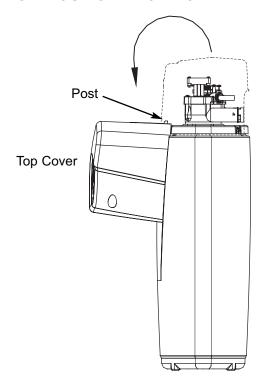


FIG. 9

### Installation

# CONNECT INLET AND OUTLET PLUMB-ING

Complete the inlet and outlet plumbing for the type of pipe as shown below.

### **Soldered Copper**

- 1. Thoroughly clean and apply solder flux to all joints.
- 2. Make all solder connections.

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

3. Secure ground clamp to metal pipes.

### Threaded Pipe

- 1. Apply pipe joint compound or Teflon® tape to all male pipe threads.
- Tighten all threaded joints and make all solder connections.

# AWARNING



**Electrical Shock Hazard** 

Use metal fittings with metal pipe.

Do not use plastic fittings to connect to metal house pipes.

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

3. Secure ground clamp to metal pipes.

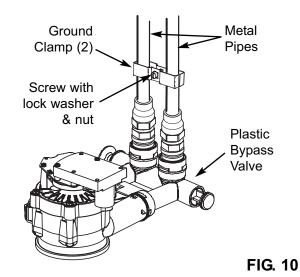
### **CPVC Plastic Pipe**

1. Clean, prime and cement all joints, following the manufacturer's instructions supplied with the plastic pipe and fittings.

# Other, including PEX (Crosslinked Polyethylene)

- 1. Follow the piping system manufacturer's instructions when using other pipe approved for potable water.
- 2. Secure ground clamp to metal pipes.
- ® Teflon is a registered trademark of E.I. Du Pont de Nemours and Company.

# ATTACH GROUND CLAMP TO PIPES IF THE INSTALLATION USES METAL PIPES AND PLASTIC BYPASS VALVE



### **Installation**

### **INSTALL VALVE DRAIN HOSE**

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

**NOTE:** If codes require a rigid drain line see "Valve Drain requirements" section.

 Run the drain hose or copper tubing to the floor drain. Secure drain hose. This will prevent the drain line from "whipping" during Clean Rinse cycles. See "Air Gap Requirements" section.

### **TEST FOR LEAKS**

- 1. Place the single bypass valve (or 3 valve bypass, if installed) in normal operation (non-"bypass") position. See "Plan The Installation" section.
- 2. Fully open the main water supply valve.
- 3. Check for leaks at all the plumbing connections you made.

**IMPORTANT:** Start up procedure must be run prior to using any filtered water. Follow the instructions below and on Page 13.

### TURN ON THE CENTRAL WATER FILTRA-TION SYSTEM

During installation, the Central Water Filtration System wiring may be moved or jostled from place. Check to be sure all leadwire connectors are secure on the back of the electronic board (see Figure 27 on Page 21) and be sure all wiring is away from the valve gear and motor area, which rotates during Clean Rinse cycles.

- 1. Plug the Central Water Filtration System into an electrical outlet that is not controlled by a switch.
- 2. The display should begin flashing 12:00 PM and "PRESENT TIME." Set the clock according to the "Set Time of Day" section on Page 14.
- 3. Run the start up procedure, as detailed on Page 13.

### SINGLE BYPASS VALVE

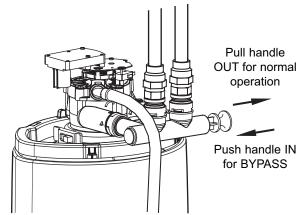


FIG. 11

### **Start Up Procedure**

#### **IMPORTANT:**

The filtration media in this Central Water Filtration System contains a small number of particles generated during manufacturing and shipping that are small enough to exit the system with water flow. It is normal for these particles to cause a temporary discoloration of the water coming out of the system. To avoid discolored water at your home's faucets the system's start up cycle should be initiated to rinse the particles and any discolored water down the drain.

If the Central Water Filtration System is used without first running the start up cycle, you will notice that the water will temporarily have a gray color until the particles have exited the system.

### To Initiate the start up cycle:

- Make sure the drain hose is attached to the Central Water Filtration System and the other end is secured over a drain (see "Install Valve Drain Hose").
- 2. Make sure bypass valve is in the "service" (open or filtered water) position and the home's water supply is turned on.
- Press and hold the CLEAN button to initiate the start up cycle. The button can be released when you hear the valve changing position and "RECHARGE NOW" flashes in the display.

### During the start up cycle:

Throughout the start up cycle you will hear the valve changing position and notice the flow of water to drain starting and stopping. The start up cycle will take approximately 20 minutes. Avoid using water during this time. Do not set the time of day or press other buttons during the start up cycle, as this will interrupt it. Do not unplug the transformer during the start up cycle. If the start up cycle is interrupted, it should be initiated again and allowed to run to completion.

### After the start up cycle:

Once the start up procedure completes successfully, it cannot be initiated a second time. The Central Water Filtration System will automatically return to the normal operation position and be ready for use. If, after running the start up cycle, the water still appears discolored, manually run Clean Rinse cycles (See Page 15) until the water is clear.

If the time of day was not set before the start up cycle, set it now (See Page 14).

Check the new plumbing connections and joints once more for leaks.

### **Programming the Central Water Filtration System**

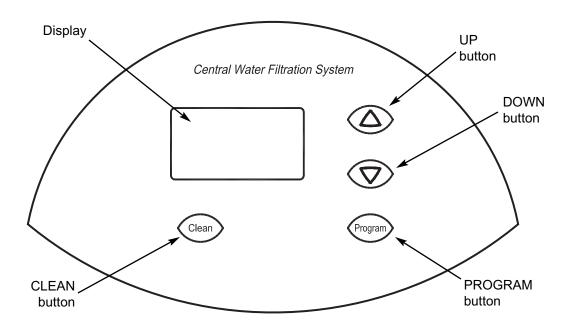


FIG. 12

If you have questions about installation, programming, operating and routine maintenance...

call 1-866-986-3223, Monday - Friday, 8 am to 9 pm, EST.

When the transformer is plugged into the electrical outlet, a model code and a test number (example: J1.3), begin to flash in the faceplate display. Then, 12:00 PM and the words "PRESENT TIME" begin to flash.

NOTE: If "- - - -" shows in the display, press the △ UP or ∇ DOWN button until "CF 8" shows in the display. Then, press the PROGRAM button to set, and change to the flashing "PRESENT TIME" display.

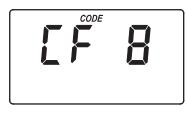




FIG. 13

#### SET TIME OF DAY

If the words "PRESENT 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.

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

2. Press the PROGRAM button a few times, until the time appears on the display, but is not flashing.





FIG. 14

### **Customizing Features / Options**

### START A CLEAN RINSE CYCLE

To manually start a Clean Rinse cycle, press <u>and hold</u> the CLEAN button for a few seconds, until "RECHARGE NOW" flashes in the display.

# SET NUMBER OF DAYS BETWEEN CLEAN RINSE CYCLES

By default the Central Water Filtration System will automatically initiate a Clean Rinse every 14 days. This should be sufficient for most applications

To change the number of days between Clean Rinse cycles:

- 1. Press the PROGRAM button until "RECHARGE" is shown in the display.
- 2. Press the  $\triangle$  UP or  $\nabla$  DOWN buttons to set the number of days between Clean Rinse cycles (from 1 to 99).
- 3. Press the PROGRAM button again when complete.



By default the Central Water Filtration System will Clean Rinse at 1:00 a.m.

To change the Clean Rinse start time:

- 1. Press the PROGRAM button until "RECHARGE TIME" is shown in the display.
- 2. Press the  $\triangle$  UP or  $\nabla$  DOWN buttons to set the Clean Rinse time. Be sure AM or PM is correct.
- 3. Press the PROGRAM button again when complete.

#### SET LENGTH OF CLEAN RINSE

By default the Central Water Filtration System's Clean Rinse cycle will consist of a 2 minute backwash followed by a 1 minute fast rinse. This should be sufficient for most applications.

Increasing the length of Clean Rinse time will increase the amount of water flushed to drain during each Clean Rinse cycle, therefore, these times should only be increased when necessary.

To change the length of the **backwash** part of the Clean Rinse cycle:

- 1. Press <u>and hold</u> the PROGRAM button for a few seconds, until the "000--" screen appears, as shown at right.
- 2. Press the PROGRAM button once, so "bA TIME" appears in the display.
- 3. Press the  $\triangle$  UP or  $\nabla$  DOWN buttons to set the length of backwash in minutes.
- 4. Press the PROGRAM button again when complete.

To change the length of the fast rinse part of the Clean Rinse cycle:

- 1. Press <u>and hold</u> the PROGRAM button for a few seconds, until the "000--" screen appears, as shown at right.
- 2. Press the PROGRAM button once, so "Fr TIME" appears in the display.
- 3. Press the  $\triangle$  UP or  $\nabla$  DOWN buttons to set the length of fast rinse in minutes.
- 4. Press the PROGRAM button again when complete.



FIG. 15



FIG. 16



FIG. 17







FIG. 18

### **Customizing Features / Options**

### **OPERATING IN MANUAL CLEAN RINSE MODE**

Clean Rinse cycles will run automatically, unless the automatic Clean Rinse function has been disabled. If this function has been disabled, it will be necessary to manually initiate any Clean Rinse cycles. It is recommended that a Clean Rinse cycle should be run at least once each month, or more frequently if necessary.

A manual Clean Rinse mode may be used when a drain (required for automatic Clean Rinse) is not available. However, it is recommended that automatic Clean Rinse be used if the drain requirements can be met.

**IMPORTANT**: During the Clean Rinse cycle, whether manually or automatically initiated, water will flow from the valve drain port. If a permanent drain line has not been installed, provisions must be made for the drain flow prior to initiating a Clean Rinse cycle.

#### **DISABLING AUTOMATIC CLEAN RINSE**

To disable the automatic Clean Rinse function:

- 1. Press and immediately release the CLEAN button (pressing and holding the button a few seconds would initiate a Clean Rinse cycle).
- 2. "VAC" should flash in the display, as shown in Figure 19, indicating that the Central Water Filtration System is in the manual Clean Rinse mode (the automatic Clean Rinse function has been disabled).



To manually start an Clean Rinse cycle:

- 1. Press <u>and hold</u> the CLEAN button for a few seconds, until "RECHARGE NOW" flashes in the display.
- 2. When the Clean Rinse cycle is complete, the Central Water Filtration System will remain in the manual Clean Rinse mode.

### **RE-ENABLING AUTOMATIC CLEAN RINSE**

To return the Central Water Filtration System to its automatic Clean Rinse function:

- 1. Press and immediately release the CLEAN button.
- 2. The flashing "VAC" on the display should be replaced by the normal time of day screen, as shown in Figure 21.

#### **POWER OUTAGE MEMORY**

If electrical power to the Central Water Filtration System is lost, "memory" built into the controller circuitry will keep all settings for up to eight hours. While the power is out, the display is blank and the Central Water Filtration System will not Clean Rinse.

When electrical power is restored, you have to reset the time of day only if the display is flashing. The Clean Rinse TIME never requires resetting unless a change is desired. Even if the clock is incorrect after a long power outage, the Central Water Filtration System works as it should to keep your water treated. However, Clean Rinse cycles may occur at the wrong time of day until you reset the clock to the correct time of day.

**NOTE:** If the Central Water Filtration System was in a Clean Rinse cycle when power was lost, it will now finish the cycle.



FIG. 19



FIG. 20



FIG. 21

# **Care of Your Central Water Filtration System**

# VACATIONS AND EXTENDED PERIODS OF NO WATER USE

If your Central Water Filtration System will not be used for an extended period of time (several months), please follow one of these recommendations:

- If the water supply to the unit is not turned off, and the automatic Clean Rinse function has not been disabled, then no further actions are required.
- If the Clean Rinse cycle cannot be automatically run, due to the water supply being shut off, the transformer being unplugged or the automatic Clean Rinse function being disabled, then it is recommended that a minimum of 2 manually initiated Clean Rinse cycles be performed when the system is placed back into operation (see Start a Clean Rinse Cycle section on Page 15).
- In any installation where there is a possibility of freezing, the Central Water Filtration System should be disconnected and the water drained (see Protect the Central Water Filtration System from Freezing section).

# DRAIN ALL WATER FROM CENTRAL WATER FILTRATION SYSTEM

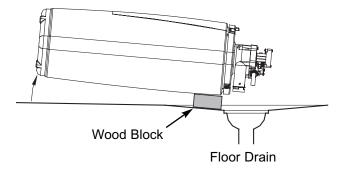


FIG. 22

### PROTECT THE CENTRAL WATER FILTRA-TION SYSTEM FROM FREEZING

If the Central Water Filtration System 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 unit:

- 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 filtered water pipes to vent pressure in the unit.
- 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 transformer at the wall outlet. Remove the cover. Take off the drain hose if it will interfere with moving the Central Water Filtration System into position over the drain.
- Remove the large holding clips at the Central Water Filtration System inlet and outlet. Separate the unit from the plastic installation adaptors, or from the bypass valve.
- 6. Lay a piece of 2 inch thick board near the floor drain.

### AWARNING

**Excessive Weight Hazard** 

Use two or more people to move and install Central Water Filtration System.

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

- 7. Move the Central Water Filtration System 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 unit's weight to rest on the inlet and outlet fittings or they may break.
- 8. Tip the bottom of the Central Water Filtration System up a few inches and hold until all water has drained. Leave the unit 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**

PROBLEM	CAUSE	CORRECTION
Water has black or gray color	(NEW SYSTEM) Start up procedure has not been completed	Run start up procedure (See Page 13) or run consecutive Clean Rinse cycles (See Page 15) until water color returns to normal.
	(NOT A NEW SYSTEM) Normal abrasion of filtration media	Manually initiate a Clean Rinse cycle (See Page 15).
Low water pressure at house faucets	Sediment filter screen is clogged	Manually initiate a Clean Rinse cycle (See Page 15).
		Clean sediment filter screen (See Page 20). If the filter screen is frequently plugging, it may be necessary to adjust the frequency of Clean Rinse cycles.
	Filtration media is fouled	Manually initiate a Clean Rinse cycle (See Page 15).
		If the filtration media is frequently fouling, it may be necessary to increase the frequency of Clean Rinse cycles.
Water has objectionable taste and/or odor	System is in bypass	Move bypass valve(s) to normal operating (non-bypass) position
	Filtration media is fouled	Manually initiate a Clean Rinse cycle (See Page 15).
		If the filtration media is frequently fouling, it may be necessary to adjust the frequency of Clean Rinse cycles.
No water flow to drain during Clean Rinse cycle	System is in bypass	Move bypass valve(s) to normal operating (non-bypass) position.
	Drain flow control is plugged	Clean drain flow control (See Page 19).
	Drain hose is plugged or kinked	Straighten drain hose.
	Transformer is unplugged from wall electrical outlet (display will be blank)	Check for loss of power and correct.
Clean Rinse cycle does not run automatically	If display reads "VAC", then Clean Rinse function has been disabled	Press and release the CLEAN button until display no longer reads "VAC".
	If display is blank, transformer may be unplugged from wall electrical outlet	Check for loss of power.
Clean Rinse cycle does not run at the pro- grammed time of day	If time display is flashing, then a long power loss caused the clock to lose its time setting	Reset the clock to the correct time of day (See Page 14).
Valve motor stalled or clicking	Motor is defective or inner valve defect is causing high torque on the motor	Replace rotor/seal kit (instructions included with kit).
		Replace motor and switch (See parts list at end of this manual).

### **Troubleshooting**

PROBLEM	CAUSE	CORRECTION
Error Code E1, E3 or E4 appears	Wiring harness or connections to position switch	Replace wiring harness or connection to position switch (See parts list at end of this manual).
	Switch	Replace switch (See parts list at end of this manual).
	Valve defect causing high torque	Replace rotor/seal kit (instructions included with kit).
	Motor inoperative	Replace motor (instructions included with motor)
Error Code E5 appears	Electronic control	Replace electronic control board (PWA) (instructions included with PWA).

### Procedure for removing error code from display:

- 1. Unplug transformer from electrical outlet.
- 2. Correct problem.
- 3. Plug in transformer.
- 4. Wait 6 minutes. The error code will return if the problem was not corrected.

### Assistance from customer service may be needed with the following:

PROBLEM	CAUSE	CORRECTION
Water running to the drain (while unit is not in the Clean Rinse cycle)	Inner valve defect causing leak	Replace seals and rotor
Filter media in household plumbing	Crack in distributor or riser tube	Replace distributor or riser tube.

### CLEANING THE DRAIN FLOW CONTROL

This procedure is not required if the Central Water Filtration System is operating normally. It should be performed only if a problem with lack of water flow to drain is encountered, as detailed in the troubleshooting table on page 18.

- 1. Remove the clip holding the drain fitting into the valve (See Figure 23).
- 2. Remove the drain fitting from the valve
- 3. Clear any obstruction.
- 4. Reinstall the drain fitting into the valve.
- 5. Reinstall the clip to secure the drain fitting in the valve.

# REMOVING DRAIN FITTING TO CLEAN FLOW CONTROL

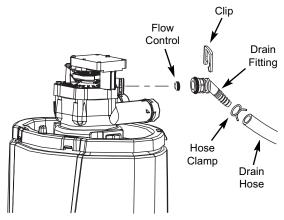


FIG. 23

### **Troubleshooting**

# CLEANING THE SEDIMENT FILTER SCREEN

This procedure is not required if the Central Water Filtration System is operating normally. It should be performed only if a problem with low water pressure at household faucets is encountered, as detailed in the troubleshooting table on page 18.

- Press and hold the CLEAN button for a few seconds, until "RECHARGE NOW" begins to flash in the display.
- 2. When water begins to flow from the valve drain hose, place the bypass valve(s) in bypass position (See Figure 11 on Page 12).

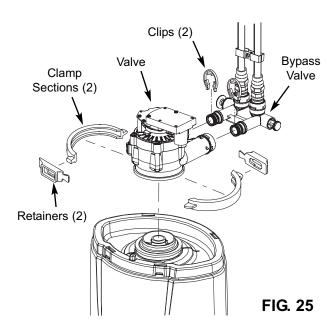
**IMPORTANT:** Be sure to do Steps 1 and 2, as instructed, to relieve water pressure in the tank.

- 3. Unplug the transformer from the wall electrical outlet.
- 4. Remove the cover and hang it from the post on front of rim (See Figure 9 on Page 10).
- 5. Pull the two clips at the inlet and outlet fittings. Slide the adaptors, or bypass valve, from the Central Water Filtration System valve.
- Remove the clamp retainers (2) and clamp sections
   (2) that hold the valve to the tank (See Figure 25).
   Lift upward to remove the valve.
- 7. Remove the small o-ring (See Figure 26).
- 8. Remove the screen from the top distributor. Rinse off the screen.
- 9. Use water to flush the tank top opening. Then, replace the top distributor and o-ring. Be sure to located o-ring seal correctly (See Figure 26).
- Install the valve assembly and retaining clamps.
   Double check to be sure clamps and retainers are securely fastened in place.
- 11. Referring to the installation instructions, reconnect the Central Water Filtration System to the plumbing. Be sure the plumbing is held firmly in place in the valve inlet and outlet.
- 12. Return the plumbing bypass valve(s) to normal operating position (non-bypass).
- 13. Plug the transformer back into the wall electrical outlet. The Central Water Filtration System will complete the Clean Rinse cycle initiated in Step 1, and will automatically return to normal operation.



FIG. 24

#### REMOVING VALVE ASSEMBLY



#### REASSEMBLING FILTER SCREEN

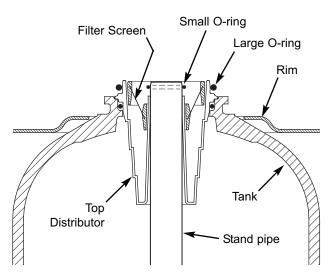


FIG. 26

# **Wiring Schematic**

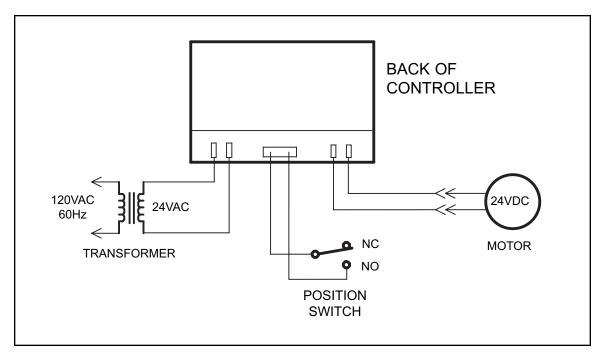


FIG. 27

# **Specifications**

	Model WHELJ1
Rated Service Flow Rate	6.0 gpm
Pressure Drop at Rated Service Flow	10 psig
Pressure Drop at 9.6 gpm	15 psig*
Water Pressure Limits (minimum / maximum)	30 - 125 psi
Water Temperature Limits (minimum / maximum)	40 - 120 °F
Drain Flow Rate	3.4 gpm
Rated Capacity	570,000 gal.
Estimated Total Capacity (extrapolated from laboratory test data)	1,500,000 gal.

<sup>\*</sup> From independent laboratory test data.

### **Warranty**

#### CENTRAL WATER FILTRATION SYSTEM WARRANTY

Warrantor: Ecodyne Water Systems Inc., 1890 Woodlane Drive, Woodbury, MN 55125

Warrantor guarantees, to the original owner, that:

#### One Year Full Warranty:

For a period of one (1) year after installation, all parts will be free from defects in materials and workmanship and will perform their normal functions.

For a period of one (1) year after installation, labor to repair or replace any part deemed to be defective in materials or workmanship, will be provided at no additional cost.

#### Limited Warranties:

Limited ten (10) year warranty, from date of purchase, the fiberglass filtration media tank will not rust, corrode, leak, burst, or in any other manner, fail to perform its proper functions; and that Limited three (3) year warranty, after installation, electronic control board will be free of defects in materials and workmanship and will perform its normal functions.

If, during such respective period, a part proves to be defective, Warrantor will ship a replacement part, directly to your home, without charge. 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 1-866-986-3223, Monday - Friday, 8 am - 9 pm EST, for assistance.

#### **General Provisions**

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

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.

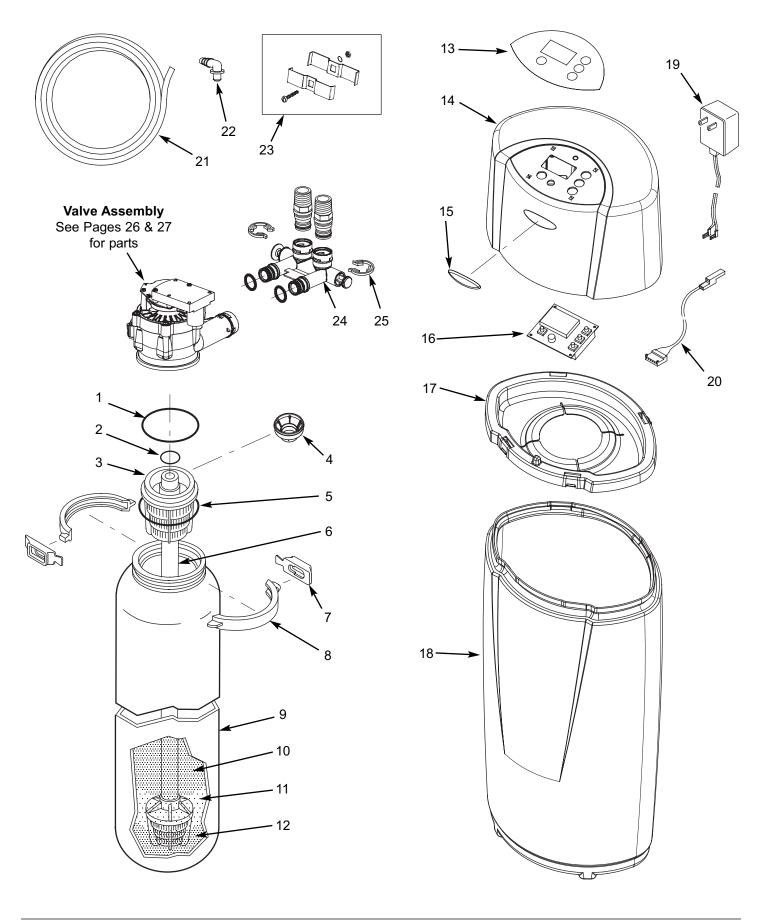
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### **Notes**

# **Central Water Filtration System Exploded View**



## **Central Water Filtration System Parts List**

Key No.	Part No.	Description
	7290876	Assembly, Replacement Mineral Tank, w/media & associated components (Includes Key Nos. 1 through 12)
1	7170296	O-Ring, 2-7/8" x 3-1/4"
2	7170254	O-Ring, 13/16" x 1-1/16"
3	7077870	Top Distributor
4	7265025	Filter Screen
5	7170270	O-Ring, 2-3/4" x 3"
6	7105047	Repl. Bottom Distributor
7	7088033	Retainer Clip (2 req.)
8	7176292	Clamp Section (2 req.)
9	*	Mineral Tank, 8" x 25"
10	*	Activated Carbon, 10 lbs.
11	*	Filter Sand, 5 lbs.
12	*	Gravel, 6 lbs.
13	7290402	Faceplate Decal
14	7290119	Cover (order decal below)
15	7290779	Whirlpool Badge
16	7290729	Repl. Electronic Control Board (PWA)
17	7290101	Rim
18	7290680	Outer Shroud Tank
19	7275907	Transformer
20	7259927	Wire Harness
21	7290509	Drain Tube, 10 ft.
22	1103200	Tube Adaptor (Elbow)
23	7248729	Grounding Kit
24	7278434	Bypass Valve
25	7116713	Clip (2 req.)

#### Not illustrated.

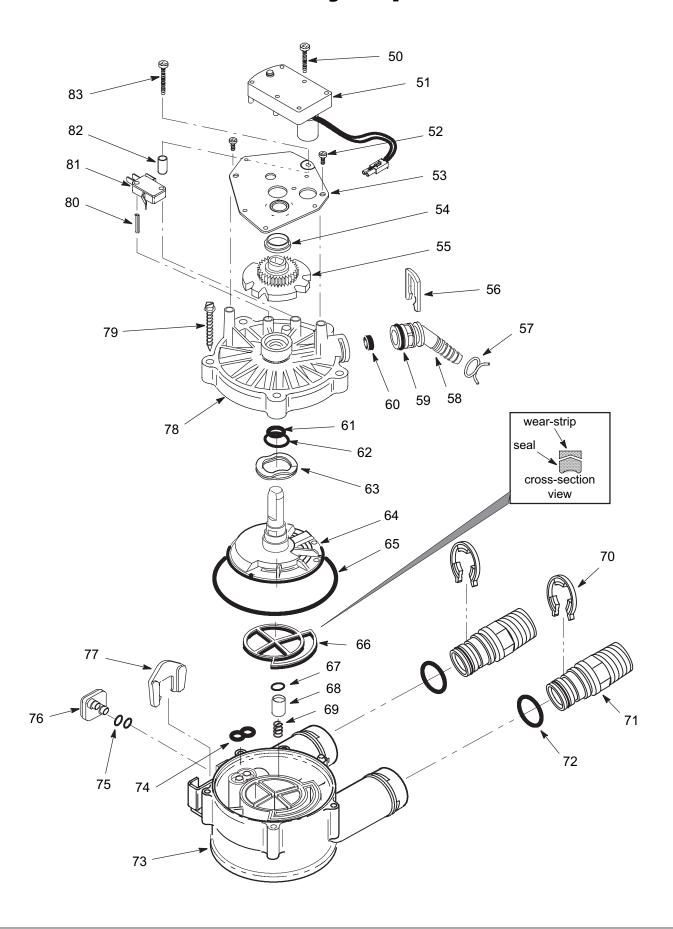
To order repair parts call toll free 1-866-986-3223, Monday - Friday, 8 am - 9 pm EST.

Manufactured and warranted by Ecodyne Water Systems, Inc. 1890 Woodlane Drive Woodbury, MN 55125

Questions? Visit www.whirlpool.com or call Toll Free 1-866-986-3223

<sup>★</sup> Mineral Tank and media can only be purchased as part of the Replacement Mineral Tank Assembly (See top of list).

# **Valve Assembly Exploded View**



### **Valve Parts List**

50         7224087         Screw, #8-32 x 1" (2 req.)           51         7286039         Motor (incl. 2 ea. of Key No. 50)           52         0900857         Screw, #6-20 x 3/8" (2 req.)           53         7231385         Motor Plate           54         0503288         Bearing           55         7284964         Cam & Gear           56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         716713	Key No.	Part No.	Description
52         0900857         Screw, #6-20 x 3/8" (2 req.)           53         7231385         Motor Plate           54         0503288         Bearing           55         7284964         Cam & Gear           56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         717028         O-Ring, 1/4" x 3/	50	7224087	Screw, #8-32 x 1" (2 req.)
53         7231385         Motor Plate           54         0503288         Bearing           55         7284964         Cam & Gear           56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring, 1/4" x 3/8" (2 req.)           74         7081764         Seal, Nozzle & V	51	7286039	Motor (incl. 2 ea. of Key No. 50)
54         0503288         Bearing           55         7284964         Cam & Gear           56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi	52	0900857	Screw, #6-20 x 3/8" (2 req.)
55         7284964         Cam & Gear           56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x	53	7231385	Motor Plate
56         7142942         Clip, Drain           57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         <	54	0503288	Bearing
57         0900431         Tubing Clamp (2 provided)           58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         Plug, Aspirator Port           77         7081201	55	7284964	Cam & Gear
58         7024160         Adapter, Drain Hose           59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         Plug, Aspirator Port           77         7081201         Retainer, Nozzle & Venturi           78         7085263	56	7142942	Clip, Drain
59         7170327         O-Ring, 5/8" x 13/16"           60         7290410         Flow Plug           61         7170238         O-Ring, 7/16" x 5/8"           62         7170212         O-Ring, 3/4" x 15/16"           63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         Plug, Aspirator Port           77         7081201         Retainer, Nozzle & Venturi           78         7085263         Valve Cover           79         7074123	57	0900431	Tubing Clamp (2 provided)
60 7290410 Flow Plug 61 7170238 O-Ring, 7/16" x 5/8" 62 7170212 O-Ring, 3/4" x 15/16" 63 7082087 Wave Washer 64 7199232 Rotor & Disc 65 7170246 O-Ring, 3-3/8" x 3-5/8" 66 7134224 Rotor Seal 67 7170204 O-Ring, 3/8" x 9/16" 68 7092642 Plug, Drain Seal 69 7129889 Spring 70 7116713 Clip (2 req.) 71 7278442 Installation Adapter (2 req.) 72 7170288 O-Ring (2 req.) 73 7082053 Valve Body 74 7081764 Seal, Nozzle & Venturi 75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	58	7024160	Adapter, Drain Hose
61 7170238 O-Ring, 7/16" x 5/8" 62 7170212 O-Ring, 3/4" x 15/16" 63 7082087 Wave Washer 64 7199232 Rotor & Disc 65 7170246 O-Ring, 3-3/8" x 3-5/8" 66 7134224 Rotor Seal 67 7170204 O-Ring, 3/8" x 9/16" 68 7092642 Plug, Drain Seal 69 7129889 Spring 70 7116713 Clip (2 req.) 71 7278442 Installation Adapter (2 req.) 72 7170288 O-Ring (2 req.) 73 7082053 Valve Body 74 7081764 Seal, Nozzle & Venturi 75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	59	7170327	O-Ring, 5/8" x 13/16"
62       7170212       O-Ring, 3/4" x 15/16"         63       7082087       Wave Washer         64       7199232       Rotor & Disc         65       7170246       O-Ring, 3-3/8" x 3-5/8"         66       7134224       Rotor Seal         67       7170204       O-Ring, 3/8" x 9/16"         68       7092642       Plug, Drain Seal         69       7129889       Spring         70       7116713       Clip (2 req.)         71       7278442       Installation Adapter (2 req.)         72       7170288       O-Ring (2 req.)         73       7082053       Valve Body         74       7081764       Seal, Nozzle & Venturi         75       7170319       O-Ring, 1/4" x 3/8" (2 req.)         76       7100940       Plug, Aspirator Port         77       7081201       Retainer, Nozzle & Venturi         78       7085263       Valve Cover         79       7074123       Screw, #10-14 x 2 (5 req.)         80       7077472       Expansion Pin         81       7030713       Switch         82       7117816       Spacer	60	7290410	Flow Plug
63         7082087         Wave Washer           64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         Plug, Aspirator Port           77         7081201         Retainer, Nozzle & Venturi           78         7085263         Valve Cover           79         7074123         Screw, #10-14 x 2 (5 req.)           80         7077472         Expansion Pin           81         7030713         Switch           82         7117816         Spacer	61	7170238	O-Ring, 7/16" x 5/8"
64         7199232         Rotor & Disc           65         7170246         O-Ring, 3-3/8" x 3-5/8"           66         7134224         Rotor Seal           67         7170204         O-Ring, 3/8" x 9/16"           68         7092642         Plug, Drain Seal           69         7129889         Spring           70         7116713         Clip (2 req.)           71         7278442         Installation Adapter (2 req.)           72         7170288         O-Ring (2 req.)           73         7082053         Valve Body           74         7081764         Seal, Nozzle & Venturi           75         7170319         O-Ring, 1/4" x 3/8" (2 req.)           76         7100940         Plug, Aspirator Port           77         7081201         Retainer, Nozzle & Venturi           78         7085263         Valve Cover           79         7074123         Screw, #10-14 x 2 (5 req.)           80         7077472         Expansion Pin           81         7030713         Switch           82         7117816         Spacer	62	7170212	O-Ring, 3/4" x 15/16"
65 7170246 O-Ring, 3-3/8" x 3-5/8" 66 7134224 Rotor Seal 67 7170204 O-Ring, 3/8" x 9/16" 68 7092642 Plug, Drain Seal 69 7129889 Spring 70 7116713 Clip (2 req.) 71 7278442 Installation Adapter (2 req.) 72 7170288 O-Ring (2 req.) 73 7082053 Valve Body 74 7081764 Seal, Nozzle & Venturi 75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	63	7082087	Wave Washer
66       7134224       Rotor Seal         67       7170204       O-Ring, 3/8" x 9/16"         68       7092642       Plug, Drain Seal         69       7129889       Spring         70       7116713       Clip (2 req.)         71       7278442       Installation Adapter (2 req.)         72       7170288       O-Ring (2 req.)         73       7082053       Valve Body         74       7081764       Seal, Nozzle & Venturi         75       7170319       O-Ring, 1/4" x 3/8" (2 req.)         76       7100940       Plug, Aspirator Port         77       7081201       Retainer, Nozzle & Venturi         78       7085263       Valve Cover         79       7074123       Screw, #10-14 x 2 (5 req.)         80       7077472       Expansion Pin         81       7030713       Switch         82       7117816       Spacer	64	7199232	Rotor & Disc
67       7170204       O-Ring, 3/8" x 9/16"         68       7092642       Plug, Drain Seal         69       7129889       Spring         70       7116713       Clip (2 req.)         71       7278442       Installation Adapter (2 req.)         72       7170288       O-Ring (2 req.)         73       7082053       Valve Body         74       7081764       Seal, Nozzle & Venturi         75       7170319       O-Ring, 1/4" x 3/8" (2 req.)         76       7100940       Plug, Aspirator Port         77       7081201       Retainer, Nozzle & Venturi         78       7085263       Valve Cover         79       7074123       Screw, #10-14 x 2 (5 req.)         80       7077472       Expansion Pin         81       7030713       Switch         82       7117816       Spacer	65	7170246	O-Ring, 3-3/8" x 3-5/8"
68       7092642       Plug, Drain Seal         69       7129889       Spring         70       7116713       Clip (2 req.)         71       7278442       Installation Adapter (2 req.)         72       7170288       O-Ring (2 req.)         73       7082053       Valve Body         74       7081764       Seal, Nozzle & Venturi         75       7170319       O-Ring, 1/4" x 3/8" (2 req.)         76       7100940       Plug, Aspirator Port         77       7081201       Retainer, Nozzle & Venturi         78       7085263       Valve Cover         79       7074123       Screw, #10-14 x 2 (5 req.)         80       7077472       Expansion Pin         81       7030713       Switch         82       7117816       Spacer	66	7134224	Rotor Seal
69       7129889       Spring         70       7116713       Clip (2 req.)         71       7278442       Installation Adapter (2 req.)         72       7170288       O-Ring (2 req.)         73       7082053       Valve Body         74       7081764       Seal, Nozzle & Venturi         75       7170319       O-Ring, 1/4" x 3/8" (2 req.)         76       7100940       Plug, Aspirator Port         77       7081201       Retainer, Nozzle & Venturi         78       7085263       Valve Cover         79       7074123       Screw, #10-14 x 2 (5 req.)         80       7077472       Expansion Pin         81       7030713       Switch         82       7117816       Spacer	67	7170204	O-Ring, 3/8" x 9/16"
70 7116713 Clip (2 req.) 71 7278442 Installation Adapter (2 req.) 72 7170288 O-Ring (2 req.) 73 7082053 Valve Body 74 7081764 Seal, Nozzle & Venturi 75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	68	7092642	Plug, Drain Seal
71 7278442 Installation Adapter (2 req.) 72 7170288 O-Ring (2 req.) 73 7082053 Valve Body 74 7081764 Seal, Nozzle & Venturi 75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	69	7129889	Spring
72 7170288 O-Ring (2 req.)  73 7082053 Valve Body  74 7081764 Seal, Nozzle & Venturi  75 7170319 O-Ring, 1/4" x 3/8" (2 req.)  76 7100940 Plug, Aspirator Port  77 7081201 Retainer, Nozzle & Venturi  78 7085263 Valve Cover  79 7074123 Screw, #10-14 x 2 (5 req.)  80 7077472 Expansion Pin  81 7030713 Switch  82 7117816 Spacer	70	7116713	Clip (2 req.)
73 7082053 Valve Body  74 7081764 Seal, Nozzle & Venturi  75 7170319 O-Ring, 1/4" x 3/8" (2 req.)  76 7100940 Plug, Aspirator Port  77 7081201 Retainer, Nozzle & Venturi  78 7085263 Valve Cover  79 7074123 Screw, #10-14 x 2 (5 req.)  80 7077472 Expansion Pin  81 7030713 Switch  82 7117816 Spacer	71	7278442	Installation Adapter (2 req.)
74 7081764 Seal, Nozzle & Venturi  75 7170319 O-Ring, 1/4" x 3/8" (2 req.)  76 7100940 Plug, Aspirator Port  77 7081201 Retainer, Nozzle & Venturi  78 7085263 Valve Cover  79 7074123 Screw, #10-14 x 2 (5 req.)  80 7077472 Expansion Pin  81 7030713 Switch  82 7117816 Spacer	72	7170288	O-Ring (2 req.)
75 7170319 O-Ring, 1/4" x 3/8" (2 req.) 76 7100940 Plug, Aspirator Port 77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	73	7082053	Valve Body
76 7100940 Plug, Aspirator Port  77 7081201 Retainer, Nozzle & Venturi  78 7085263 Valve Cover  79 7074123 Screw, #10-14 x 2 (5 req.)  80 7077472 Expansion Pin  81 7030713 Switch  82 7117816 Spacer	74	7081764	Seal, Nozzle & Venturi
77 7081201 Retainer, Nozzle & Venturi 78 7085263 Valve Cover 79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	75	7170319	O-Ring, 1/4" x 3/8" (2 req.)
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79 7074123 Screw, #10-14 x 2 (5 req.) 80 7077472 Expansion Pin 81 7030713 Switch 82 7117816 Spacer	77	7081201	Retainer, Nozzle & Venturi
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81 7030713 Switch 82 7117816 Spacer	79	7074123	Screw, #10-14 x 2 (5 req.)
82 7117816 Spacer	80	7077472	Expansion Pin
· ·	81	7030713	Switch
83 7070412 Screw, #4-24 x 1-1/8", Flat Head	82	7117816	Spacer
	83	7070412	Screw, #4-24 x 1-1/8", Flat Head

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