

Model WHELJ1

Whirlpool Central

Water Filtration System \*

How to install, operate

and maintain your Central

Water Filtration System for Scottsdale, AZ; Cave Creek, AZ, Phoenix, AZ; Gilbert, AZ.



If you need parts or service or media for this equipment, please call our office (480) 969-7251 Mountain time.

Purpose of a whole house filter Mesa, AZ; Gold Canyon, AZ; Cave Creek, AZ; Laveen, AZ for the reduction of chlorine taste and odor.

Operation and parts and supplies information

Specifications & Performance Claims

This system has been tested according to NSF/ANSI 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 42 for

whole house water filtration in the areas of Fountain Hills, AZ, Phoenix, AZ; Cave Creek, AZ and San Tan Valley, AZ.

While testing was performed under standard laboratory conditions, actual performance of the system may vary based on local water conditions.

#### SPECIFICATIONS

Model WHELJ1

Rated Service Flow Rate 6.0 gpm (22.7 L/min.)

Pressure Drop at Rated Service Flow 10 psig\* (68.9 kPa)

Pressure Drop at 9.6 gpm 15 psig\* (103.4 kPa)

Water Pressure Limits (minimum / maximum) 30-125 psi(206.8 – 861.8 kPa)

Water Temperature Limits (minimum | maximum) 40-100-F (5 – 38 °C)

Drain Flow Rate 3.4 gpm

#### Rated Capacity at Chlorine Concentration\*\*

0.50 ppm 2,280,000 gal.\*

0.75 ppm 1,520,000 gal.\*

1.0ppm 1,140,000 gal.\*

1.5ppm 760,000 gal.\*

2.0 ppm 570,000 gal.

Sediment Removal with 30-40 micron particle size 95% or more

Sediment Removal with 40-50 micron particle size 99% or more

\* From independent laboratory test data.

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

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

#### 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.

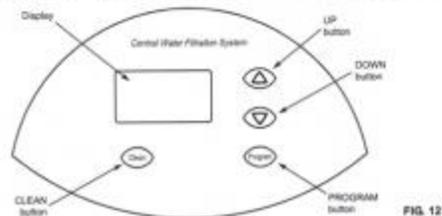
Remove and discard (or recycle) all packing materials. To avoid loss of small parts, we suggest you keep the small parts in the parts bag until you are ready to use them.

Packing List;

Ground Clamp Kit; Drain Hose; Hose Clamps; Grommet (used for Models WHES33,WHES44 & WHES48)

## Programming the Central Water Filtration System

### Programming the Central Water Filtration System



Words in picture: Display;UP button; Central Water Filtration System; DOWN button; CLEAN button; PROGRAM button

When the power supply is plugged into the electrical outlet, a model code and a test number (example: J2.0), 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 the model code "CF 8" shows in the display. Then, press the PROGRAM button to set, and change to the flashing "PRESENT TIME" display. Whole house water filtration is available in the areas of Tempe, AZ, Chandler, AZ San Tan Valley, AZ Ahwatukee, AZ Phoenix, AZ Fountain Hills, AZ Cave Creek, AZ Scottsdale, AZ.

### 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.

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

Questions? Call (480) 969-7251 Monday- Friday, 8 AM -5 PM Mountain time.

## Customizing Features I Options

### START A CLEAN RINSE CYCLE

To manually start a Clean Rinse cycle, press and hold 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:

Press the PROGRAM button twice, so "RECHARGE" is shown in the display.

Press the UP or DOWN buttons to set the number of days between Clean Rinse cycles (from 1 to 99).

Press the PROGRAM button twice when complete.

### SET CLEAN RINSE TIME

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

To change the Clean Rinse start time:

Press the PROGRAM button three times, so "RECHARGE TIME" is shown in the display.

Press the UP or DOWN buttons to set the Clean Rinse time. Be sure AM or PM is correct.

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:

Press and hold the PROGRAM button for a few seconds, until the "000" screen appears,

Press the PROGRAM button once, so "bA TIME" appears in the display.

Press the UP or DOWN buttons to set the length of backwash in minutes.

Press the PROGRAM button twice when complete.

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

Press and hold the PROGRAM button for a few seconds, until the "000—" screen appears.

Press the PROGRAM button twice, so “Fr TIME” appears in the display.

Press the UP or DOWN buttons to set the length of fast rinse in minutes.

Press the PROGRAM button again when complete.

## Customizing Features I 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:

Press and immediately release the CLEAN button (pressing and holding the button a few seconds would initiate a Clean Rinse cycle).

“VAC” should flash in the display, indicating that the Central Water Filtration System is in the manual Clean Rinse mode (the automatic Clean Rinse function has been disabled).

### MANUALLY STARTING A CLEAN RINSE CYCLE To manually start a Clean Rinse cycle:

Press and hold the CLEAN button for a few seconds, until “RECHARGE NOW” flashes in the display.

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:

Press and immediately release the CLEAN button.

The flashing "VAC" on the display should be replaced by the normal time of day screen.

#### 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 several 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.

#### Troubleshooting

PROBLEM	CAUSE	CORRECTION
Water has black or gray color or run consecutive Clean Rinse cycles normal.	(NEW SYSTEM) Start up procedure has not been completed	Run start up procedure or until water color returns to normal.
(NOT ANEW SYSTEM) filtration media	Normal abrasion of	Manually initiate a Clean Rinse cycle
Low water pressure at Clean Rinse cycle house faucets screen . If the filter screen is frequently plugging, it may be necessary to adjust the frequency of Clean Rinse cycles.	Sediment filter screen is clogged	Manually initiate a Clean sediment filter
Filtration media pores are blocked		Manually initiate a Clean Rinse cycle

If the filtration media pores are frequently blocking, it may be necessary to increase the frequency of Clean Rinse cycles.

Water has objectionable taste and/or odor position.

System is in bypass

Move bypass

bypass)

Filtration media pores are blocked

Manually initiate a Clean Rinse cycle

If the filtration media pores are frequently blocking, it may be necessary to increase the frequency of Clean Rinse cycles.

No water flow to drain valve(s) to normal operating (non-during Clean Rinse cycle) position.

System is in bypass

Move bypass

bypa

cycle

Troubleshooting

Procedure for removing error code from display:

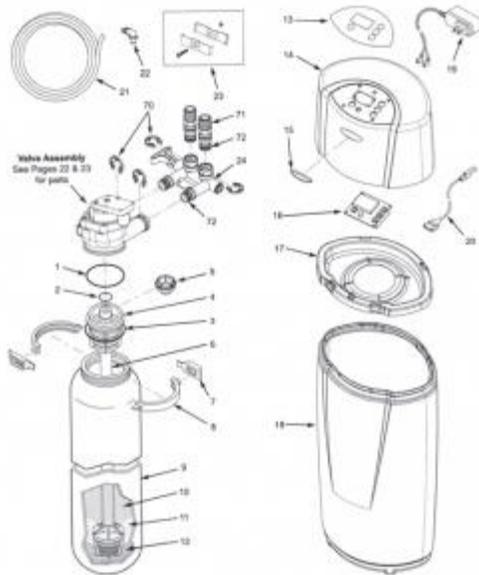
Unplug power supply from electrical outlet

Correct problem.

Plug power supply back in.

Wait 8 minutes. The error code will return if the problem was not corrected.

Central Water Filtration System Exploded View

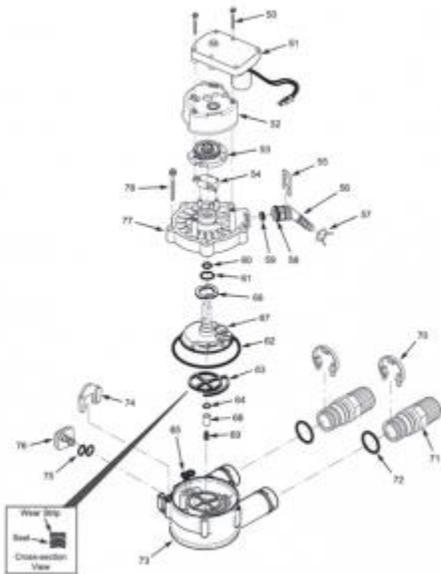


### Central Water Filtration System

#### Parts List

Key No.	Part No.	Description
7290876	Assembly, Replacement Mineral Tank, w/media & associated components (Includes Key Nos. 1 through 12)	
–	7112963	Distributor O-Ring Kit (includes Key Nos. 1-3)
1	“	‘1” O-Ring, 2-7/8” x 3-1/4”
2	“	O-Ring, 13/16” x 1-1/16”
3	“	‘1’ O-Ring, 2-3/4” x 3”
4	7077870	Top Distributor
5	7265025	Filter Screen
6	7105047	Repl. Bottom Distributor
–	7331177	Tank Neck Clamp Kit (includes 2 ea. of Key Nos. 7 & 8)
7	“	Retainer Clip (2 req.)
8	“	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 above and badge below)
15	7336915	Whirlpool Brand Badge
16	7290729	Repl. Electronic Control Board (PWA)
17	7290101	Rim
18	7296296	Outer Shroud Tank
19	7337482	Power Supply, 28V DC
20	7259927	Wire Harness
21	7139999	Drain Hose, 20 ft.
22	1103200	Adaptor Elbow
23	7248706	Ground Clamp Kit
24	7278434	Bypass Valve Assembly, 3/4", including
2 O-Rings (Key No. 72)		
7339997	Owner's Manual	



Valve Parts List

Key No.	Part No.	Description
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50	7338111	Screw, #6-19 x 1-3/8" (2 req.)
51	7281291	Motor
52	7337474	Motor Mount
53	7284964	Cam & Gear
54	7030713	Switch
–	7331274	Drain Hose Adaptor
Kit (incl. Key Nos. 55-59)		
55	"	Clip, Drain
56	"	Hose Clamp
57	"	Adaptor, Drain Hose
58	"	O-Ring, 5/8" x 13/16"
59	"	Flow Plug, 3.4 gpm
–	7129716	Seal Kit (includes Key Nos. 60-65)
60	"	O-Ring, 7/16" x 5/8"
61	"	O-Ring, 3/4" x 15/16"
62	"	O-Ring, 3-3/8" x 3-5/8"
63	"	Rotor Seal
64	"	O-Ring, 3/8" x 9/16"
65	"	Seal, Nozzle & Venturi
66	7082087	Wave Washer
67	7199232	Rotor& Disc
–	7342665	Drain Plug Kit, 3/4" (includes Key Nos.
64, 68 & 69)		
68	"	Plug, Drain Seal
69	"	Spring
70	7337563	Clip, 3/4", pack of 4
71	7342673	Installation Adaptor, 3/4", pack of 2,

including 2 ea. Clips & O-Rings (See  
Key Nos. 70 & 72)

72	7337571	O-Ring, 15/16" x 1-3/16", pack of 4
73	7082053	Valve Body
74	7081201	Retainer, Nozzle & Venturi
75	7342649	O-Ring, 1/4" x 3/8", pack of 2
76	7100940	Plug, Aspirator Port
77	7337466	Valve Cover
78	7342657	Screw, #10-14 x 2", pack of 5

. \* source: Whirlpool document 7339997 (Rev. D 7/22/14)