System installation requires the services of a licensed plumber.

IMPORTANT
Read & Save These Instructions.

QUESTIONS?
1.800.879.8909
(int’l +1.775.359.9500)
MON - FRI 8 AM - 5 PM PST

My System Serial #:
Serial Number is located on filter housing base.

System Certified by IAPMO R&T against NSF/ANSI Standard 53 and CSA B483.1 for the reduction of Lead, Cysts, Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS).

PREMIUM WATER FILTRATION
EVO100
INSTALLATION, USE & CARE GUIDE
WHOLE HOUSE Water Filtration System

WaterChef
PREMIUM WATER FILTRATION
WHAT’S IN THE BOX [MODEL: EVO100]

- EVO100 Filter Housing Assembly (includes Top Cap and Snap Ring)
- WaterChef® EVR1 Filter Cartridge
- Flow Control Valve
- Flow Meter Assembly
- Reducer Tees (2)
- 3/8” Drain Valve Assembly with Shut-off
- Straight 1” MNPT Connectors (2)
- 90º Elbow 1” MNPT Connectors (2)
- Umbrella Cover with Monitor Assembly and Battery Backup
- Power Supply

Also Included:
- Food Grade Silicone
- AAA Batteries (3)
- 3/8” O.D. Drain Hose (5ft.)
- Installation, Use & Care Guide
- Performance Data Sheet
- Product Registration Card

waterchef.com
Introduction

Congratulations on the purchase of your new WaterChef® Premium Whole House Water Filtration System!

WaterChef Filtration Systems are crafted using the finest materials and workmanship, and will serve you reliably for many years to come when operated and maintained according to the directions contained in this guide.

You have made a wise investment in providing quality water for you and your loved ones. Now please take a few minutes to learn about all the features and benefits your new System has to offer!

Important Use Guidelines

- Read this manual completely before attempting to install or use this product. If system is not maintained and operated as specified in this manual, there is a risk of exposure to contaminants.
- Testing was performed under standard laboratory conditions, actual performance may vary. Actual performance is dependent on influent water quality, flow rates, system design and application.

For optimal performance, replace your Filter Cartridge upon the first occurrence of the following:
- Annually
- You notice a taste or odor recurrence, or a significant reduction in flow rate
- System LEDs turn RED (indicating rated capacity of the filter cartridge has been reached)

- Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the System.
- Individuals requiring specific microbiological purity should consult their physician.
- Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Installation of this System must comply with all state and local laws and regulations.
- For residential use only.
- The contaminants or other substances removed or reduced by this System may not be in all users’ water.
- System to be supplied only with cold water.
- If this or any other system is installed in a metal (conductive) plumbing system (i.e. copper of galvanized metal), the plastic components of the system will interrupt the continuity of the plumbing system. As a result, any errant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Some homes may have been built in accordance with building codes that actually encouraged the grounding of electrical appliances through the plumbing system. Consequently, the installation of a bypass consisting of the same material as the existing plumbing or a grounded “jumper wire” bridging the equipment and reestablishing the contiguous conductive nature of the plumbing system must be installed prior to system use.
- Flush new Cartridges for a minimum of 10 minutes prior to use.
- Spent absorption media will not be regenerated and used. If absorption media is affected by chlorine, influent will be treated to remove chlorine.
- DO NOT USE extra lubricants, unapproved sealants, or tools to tighten hand tighten only parts. Use of tools on hand tighten only parts will void warranty.
- For this System to continue to perform as tested and represented, be sure to use only genuine, certified WaterChef® Filter Cartridges. For additional purchase information, contact WaterChef Customer Care at 1.800.879.8909 (int’l +1.775.359.9500) or visit us online at www.waterchef.com.
PRODUCT SPECIFICATIONS

WATERCHEF® WHOLE HOUSE WATER FILTRATION SYSTEM (Model: EVO100)

Installation ................................................ Whole House
Particle Retention Size ................................. Sub-Micron
Intelligent Monitor ....................................... LED
Rated Capacity ........................................... 100,000 gallons (378,541 L)
Rated Service Flow ................................. 4.51 gpm
Peak Flow & Reduction of Lead ................... 8 gpm @ 99.62%

Replacement Filter Cartridge ...................... EVR1
Maximum Working Pressure ........................ 125 psig (8.89 kg/cm²)
Minimum Working Pressure ....................... 20 psig (1.41 kg/cm²)
Maximum Operating Temperature ................. 120°F / 50°C
Minimum Operating Temperature .................. 34°F / 1°C
Electrical Requirements ................ Grounded & Unswitched 115V, 3-AAA Batteries

System Certified by IAPMO R&T against NSF/ANSI Standard 53 and CSA B483.1 for the reduction of Lead, Cysts, Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS).

Manufacturer internally tested for Chlorine and Chloramine reduction.

Refer to Performance Data Sheet for actual contaminant and substance reduction capabilities.

PERFORMANCE

This system has been certified by IAPMO for NSF/ANSI Standard 53 and CSA B483.1 for the specific performance claims verified and substantiated by test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Performance claims are based on a complete system, including filter cartridge, housing, and connection to a pressurized water source. This filter must be operated according to the system’s specifications in order to deliver the claimed performance. It is essential to follow operational, maintenance, and filter replacement requirements, as directed for each application, for this filter and system to perform correctly. Read the Performance Data Sheet accompanying the system and change the filter cartridge as suggested.

WHERE TO INSTALL
 SYSTEM INSTALLATION

NOTE

Allow 3 feet of open space above the System to allow for filter cartridge installation and replacement.

1. Connect Reducer Tees C to Inlet/Outlet Cap Assembly B located on bottom of Filter Housing A. *(Reducer Tee with plugged fitting installs on the right side.)* Hand Tighten Only

2. Connect Flow Meter Assembly D to Reducer Tees C; wired Flow Meter should be placed on the Outlet Side (right). *(Note the flow direction arrow on meter body.)* Hand Tighten Only

3. Connect Flow Control Valve E to Flow Meter Assembly D. Hand Tighten Only

4. Use either Straight or 90° Elbow 1” MNPT Connectors F for connecting your plumbing system. Hand Tighten Only

5. Install Drain Valve Assembly G into left Reducer Tee C using the threaded connection and plumber’s tape. Hand Tighten Only

6. Install 3 AAA batteries in Umbrella Cover H; connect to power supply.

IMPORTANT

DO NOT USE extra lubricants or unapproved sealants; DO NOT USE tools to tighten hand tighten only parts. Use of tools on hand tighten only parts will void warranty.

PART IDENTIFICATION

A Filter Housing
B Bottom Inlet/Outlet Cap Assembly
C Reducer Tees (2) (1 plugged fitting)
D Flow Meter Assembly
E Flow Control Valve
F Straight or 90° Elbow 1” MNPT Connectors (2 each)
G 3/8” Drain Valve Assembly with Shut-Off
H Umbrella Cover *(with Monitor Assembly and Battery Backup)*

NOT SHOWN: Power Supply
FILTER CARTRIDGE INSTALLATION

System comes pre-assembled without the Cartridge installed.

1. Press down on the Housing Assembly’s Top Cap with both hands to unseat the Snap Ring. (fig. A) Remove the Snap Ring by carefully grasping the handle and pulling inward, then upward. The Ring should slide completely out of the groove. (fig. B)

2. Remove the Top Cap from the Housing by holding the Cap Handles and lifting. (fig. C) (Place the Cap on a clean and dry surface, free of debris, so that no contamination of the O-ring occurs.)

3. Remove packaging from Filter Cartridge.

4. Slide the Cartridge into the Housing Tank with the double O-ring facing down. While lowering Cartridge into Tank, align the Cartridge with the center opening in the bottom of the Tank. Press down on the Cartridge so that the double O-ring seats into the bottom, center opening. (fig. D)

5. Reposition the Top Cap into its original location on the Housing.

6. Reattach the Snap Ring then pull up on the Top Cap handles to seat the O-ring.

7. Turn water supply ON by opening the Inlet & Outlet Valves on the Flow Control Valve.

8. As the System fills with water, push down on the RED Pressure Release Button on the Top Cap to relieve the System of air. Keep Button pushed down until ALL air is released and water starts to come out of the Button. Release Button. (fig. E)

9. Seat Umbrella Cover on top of Housing Assembly (fig. F) and check for leaks.

10. Flush System by running water through System for 10 minutes before use.

**IMPORTANT**

Repeat flushing procedure each time a new Filter Cartridge is installed.
FILTER STATUS NOTIFICATIONS

The built-in Intelligent Monitor™ measures water and flow rate in real-time, notifying you about remaining filter cartridge life with simple color-coded LED notifications.

<table>
<thead>
<tr>
<th>GREEN</th>
<th>YELLOW</th>
<th>RED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Operating</td>
<td>Under 10% of Filter Life</td>
<td>End of Filter Life</td>
</tr>
<tr>
<td>Performance</td>
<td>Remains</td>
<td>has Been Reached</td>
</tr>
<tr>
<td>FILTER IS GOOD</td>
<td>ORDER NEW FILTER</td>
<td>REPLACE FILTER NOW</td>
</tr>
</tbody>
</table>

REPLACING THE FILTER CARTRIDGE

1. Turn OFF the water supply to the System by shutting off the Inlet & Outlet Valves on the Flow Control Valve.

2. Remove Umbrella Cover from the top of the Housing. Replace the 3 AAA batteries with new batteries. Reset the Intelligent Monitor™ by pushing and holding the Reset Button on the monitor board for 3 seconds. The GREEN LED lights will flash 3 times to confirm reset. (fig. G)

3. Depressurize the System by pushing down on the RED Pressure Release Button on the Top Cap of the Housing until ALL the air or water pressure is completely released. (fig. H)

4. Press down on the Top Cap with both hands to unseat the Snap Ring. (fig. I) Remove the Snap Ring by carefully grasping the handle and pulling inward, then upward. The Ring should slide completely out of the groove. (fig. J)

5. Remove the Top Cap from the Housing by lifting up on the Cap Handles. Remove the old Filter Cartridge.

6. Connect 3/8” O.D. Tubing (included with EVO100 System) to the Drain Valve that connects to the inlet side of the Filtration System. Run the hose to a floor drain or bucket then OPEN the Drain Valve and flush out the bottom of the System.

(continued on following page)
7. Remove packaging from new Filter Cartridge then slide into Housing Tank with the double O-ring facing down. (fig. K)

8. Position the Cartridge so that it is aligned with the bottom, center opening in the Tank. (fig.) Press down on the Cartridge so that the double O-ring seal seats into the bottom, center opening.

9. Reposition the Top Cap into its original location on Housing.

10. Reattach the Snap Ring then pull up on the Top Cap Handles to seat the O-rings.

11. CLOSE the Drain Valve then turn ON the water supply to the System by opening the Inlet & Outlet Valves on the Flow Control Valve.

12. As System fills with water, push down on the RED Pressure Release Button on Top Cap to relieve System of air. (fig. M) **Keep Button pushed down until ALL air is released and water starts to come out of the Button.** Release Button.

13. Seat Umbrella Cover on top of Housing Assembly (fig. N) and **check for leaks.**

14. Flush System by running water through System for 10 minutes before use. **If lights are not flashing GREEN, see step 2.**

**IMPORTANT**

Repeat flushing procedure each time a new Filter Cartridge is installed.
INTELLIGENT MONITOR™

POWER

This unit is to be powered using +12V DC. The power unit is a wire tail with 2.5mm, center positive barrel jack.

The Intelligent Monitor™ has a battery backup that uses 3 AAA size batteries. The battery holder is part of the Monitor Assembly located inside the Umbrella Cap on the top of the System. It can be accessed by lifting the Umbrella Cap from the System. Battery life will vary based on water flow when running on battery mode and type of batteries used. With high continuous flow, the batteries are expected to last approximately 14 days. With no flow, the batteries are expected to last approximately 6 months.

OPERATION

The Intelligent Monitor™ keeps track of the gallons of water that pass through the System. The Monitor is removable for inspection and cleaning. Make sure water is bypassed or turned off when removing the Monitor for maintenance. The Monitor has a three pin plug that connects to the electronic board in the Umbrella Cap.

LEDs

Simple color-coded LED notifications display the usage status of the filter cartridge:

<table>
<thead>
<tr>
<th>GREEN</th>
<th>100%-10% of filter life remains</th>
</tr>
</thead>
<tbody>
<tr>
<td>YELLOW</td>
<td>Under 10% of filter life remains</td>
</tr>
<tr>
<td>RED</td>
<td>End of filter life has been reached</td>
</tr>
</tbody>
</table>

If there is flow, LEDs should alternately blink in the following pattern: 1-2-3-2 (repeat). The frequency that the LEDs blink corresponds to the flow rate received from the Monitor. For every revolution from the Monitor, the LED pattern should be incremented to turn off the next LED. If there are no revolutions for 2 seconds, all LEDs will turn on solid.

If the batteries are low, the middle LED will turn WHITE. The battery level is checked once an hour to minimize the battery drain from checking the voltage.

Reset Button

The Reset Button allows for the Intelligent Monitor™ to be reset.

To reset the Intelligent Monitor™, press and hold the Reset Button for 3 seconds. Once reset, the LEDs should flash green 3 times to confirm reset.

Power Monitoring and Battery Mode

In addition to monitoring water usage, the Intelligent Monitor™ also monitors the System’s 12V DC power and battery power. If there is a power failure and no batteries are installed, the Monitor’s value will be saved to non-volatile memory. When power is resumed, the gallon count will resume from where it left off when power was lost.

If there is a power failure and batteries are installed, the Monitor goes into battery mode. During battery mode, the LEDs should shut off. If the Monitor is in the YELLOW or RED state, or if the battery voltage gets low, the LEDs will flash on in the appropriate color for .125 seconds every 4 seconds. If the Reset Button is pressed in battery mode, the LEDs will turn on for 4 seconds and then return to battery mode.
EVO100 WHOLE HOUSE WATER FILTRATION SYSTEM

5-YEAR LIMITED WARRANTY

WaterChef® warrants that this filtration system will be free from defects in materials and workmanship in manufacturing for the period of five years (60 months) from the date of purchase. This warranty is extended to the original purchaser. Use of this product constitutes Buyer’s acceptance of this Limited Warranty.

WaterChef, at its sole discretion, will repair or replace this product or component of the product found to be defective during this warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser from the date of original retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty service.

WHAT IS NOT COVERED

This warranty does not cover filter cartridges, systems that were not installed in compliance with the installation instructions by a licensed plumber, normal wear of components or the following:

- Damage caused by improper installation or use contrary to the Installation, Use & Care Guide, disassembly, modification or alteration by anyone other than WaterChef or a WaterChef authorized service center.
- Damage caused by negligent use or misuse of the product, neglect, oxidizing agents (such as chlorine, ozone chloramines and other related components).
- Damage due to excessive sediment in water supply or clogging (replacement of pre-filter cartridge is the purchaser’s responsibility), use with non-potable water supplies or use with water pressure that is outside the specified operating range.
- Damage caused by accident, fire, freezing, flood or acts of God.
- Cost of labor or expenses expended in the installation and/or removal of system, filter cartridges, or any surrounding device.
- Incidental or consequential damage caused by a failure of the product or the breach of any expressed or implied warranty. Except to the extent prohibited by applicable law, any implied warranty or merchantability is limited to the duration of the above warranty.

This Warranty if voided if the product is used with non-genuine WaterChef parts or replacement filter cartridges. Some states, provinces or jurisdictions do not allow the exclusion or limitation of the 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 or province to province.

HOW TO OBTAIN WARRANTY SERVICE

Call 1.800.879.8909 (int’l +1.775.359.9500) or email customercare@waterchef.com within the warranty period to describe the problem. If it is determined that it is necessary to return the defective part, a Return Authorization Number will be issued. Parts returned without a Return Authorization Number will be refused. Pack the product in a shipping carton, using newspaper or other packing materials to protect the product from damage in transit. Before sealing the carton, be sure to include proof of purchase and proof of installation by licensed plumber. Be certain to include your return shipping address and Return Authorization Number on the outside of the carton.

Upon receiving the product, we will repair or replace the part and return it to the return address on the shipping carton at no cost to you (U.S. customers only).
Thank you for choosing WaterChef®! Don’t forget to take a moment to register your new System. Doing so will allow us to better serve you in the event that technical or warranty assistance is ever required.

Simply visit www.waterchef.com to register your system online, or if you prefer, you may complete and return this registration form to: WaterChef Customer Care · 3760 Barron Way · Reno, NV 89511

NAME: ________________________________

STREET ADDRESS: ________________________________

CITY: ___________________________ STATE: ________ ZIP: ________________

PHONE: (________)_________________ EMAIL: __________________________

MODEL #: EVO100 SERIAL #: __________________________ DATE OF PURCHASE: ______ / ______ / ______

PURCHASED FROM: __________________________

[ ] Sign me up for WaterChef Updates, Special Promotions & Exclusive Discounts!

[ ] Please send me Courtesy Email Notifications when it’s time to replace my filter cartridge.

We value your privacy and will not sell or share your information with anyone. You may unsubscribe from updates and cartridge reminder notifications at any time.

NOTES

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