WATER CONSERVATION SETTING

Whole Home Water Filtration Systems

FOR THESE MODEL NUMBERS:

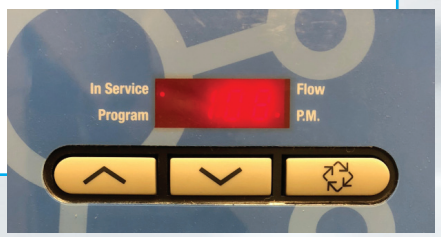
Whole Home Water Filtration & Conditioning Systems:

CS-EWS-1354-7000, EWS-1035, EWS-1054, EWS-1354, EWS-1354-HF, EWS-1354-11/2

Whole Home Water Filtration Systems:

CS-CWL-1354-7000, CWL-1035, CWL-1054, CWL-1354, CWL-1354-HF, CWL-1354-11/2

for all
Valves with Red Screen Display
January 2002 - December 2007



ENVIRONMENTAL WATER SYSTEMS®

Quality Water Filtration Crafted in the USA Since 1987.

WWW.EWSWATER.COM

Customer Service
Monday - Friday 8:00am - 4:30pm Pacific Time
Office: 702-256-8182 Fax: 702-256-3744
customerservice@ewswater.com

ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA

WATER CONSERVATION NOTE:

Once system has gone through this proper start up, the setting can be adjusted for a water conservation setting which can reduce the total water usage. The setting is dependant on local water conditions and usage.

See the step by step instructions to adjust the system self-cleaning settings to conserve water while maintinaing the filter capabiltieis and the filter longevity

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Water Conservation – Water Restrictions – Drought Conditions

With growing issues with water shortages, it becomes more important to filter all your water. However to properly do so requires a point of entry system that properly self-cleans or backwashes the filter media. This is a requirement in order to get longevity out of the filtration media. Most importantly, backwashing the filter media is a requirement in order to properly filter contaminents.

The Valve:

Self-cleaning or backwashing is necessary to provide better flow rates (see non-backwashing pass through tanks with flow rates @ 7gpm compared to EWS from 15 gpm, 22gpm for HF, 50gpm for 1.5” valves and 100gpm for 2” valves). The valve also provides an opportunity to either backwash the system properly either automatically or manually.

Water Does Not Need to be Wasted:

Backwash water is used to lift filtration media and prevent packing or channeling and allows for greater surface areas in order to filter effectively and over a long period of time. This is only filtered water and not a brine and can be used for all purposes and is safe for waste water treatment or to be used. Water can go back to pool to maintain water levels or be used to water desert landscape creating a zero waste. Make sure to see proper drain applications using a spring check and air gap requirements for any installation.

The Need to Backwash: *(please see back pages)*

We have attached a chart excerpted from a large study comparing backwashing and non-backwashing carbon filtration media which dispels the deceptive marketing of non- backwashing whole home filtration systems. The results show that non-backwashing systems which render the filtration ineffective. Period.

Great Marketing by Competitors but Unfortunately is Poor or Deceptive Information:

Running the water up through the filtration media or upflow is not a proper backwash and makes for poor surface contact and is ineffective as a filtration device.

In Simpler Terms (if you do not backwash):

The carbon and filtration will not work…! You get ripped off…! It does not do what they say it will…!

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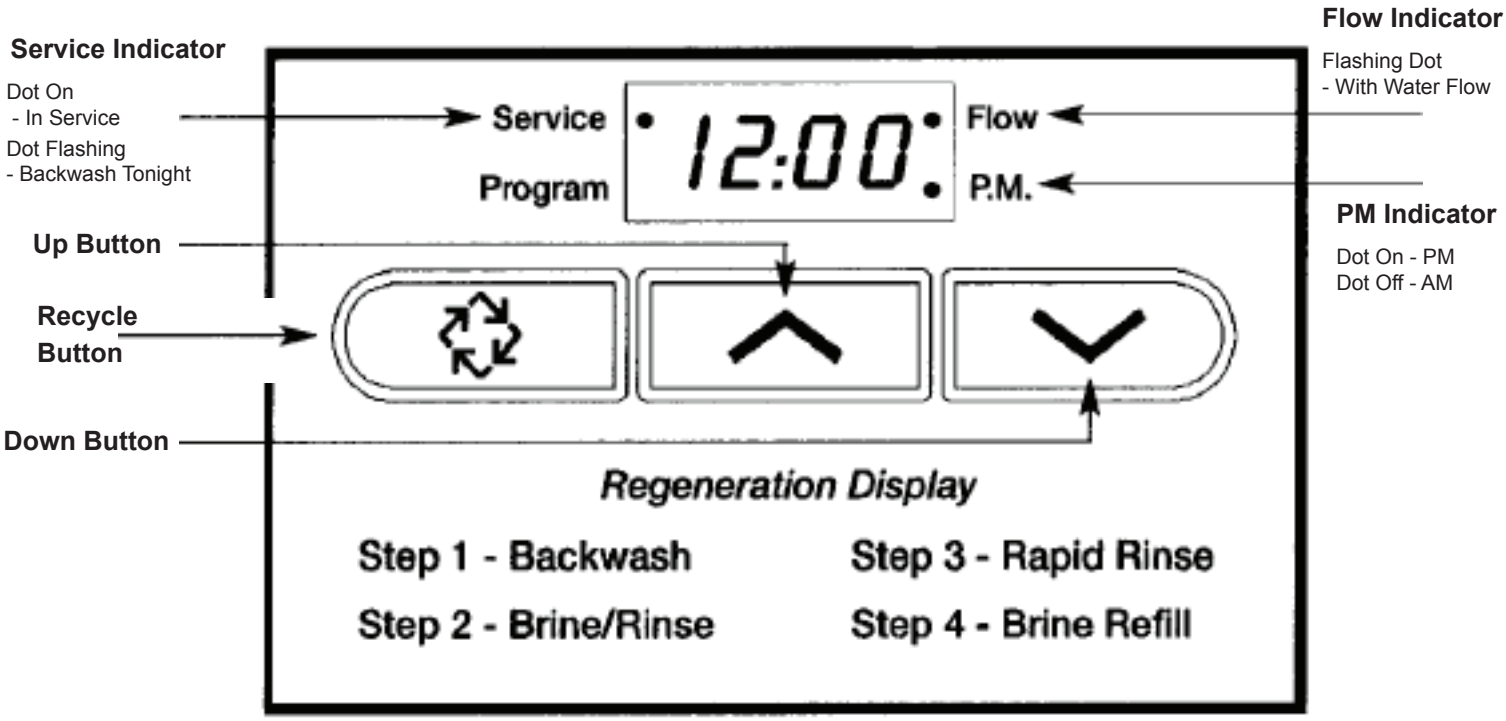
red display led screen and what you see when the system is on

this is the home screen where you will start



Please Note:
Valve Face may or may not have the Regeneration Display with Steps 1 through 4 or may be a slightly different version from what is represented above

water conservation procedure - getting through the master programming

You will see the screens in the proper order in which they appear.
Follow the simple step by step instructions.

Make sure these screens read the factory default setting.
If not, press Up or Down Button until you reach the correct screen read-out

From the Home Screen

Press the Up or Down Button and set the Time of Day to 12:01 PM

Make sure the PM Indicator Dot is lit

Next, push the Up and Down Buttons *at the same time*
and hold for about 5-8 secs until the display changes.

Once the display changes, release the up and down arrows.

The display should read U---1

Note: The program light in the left-hand corner should be blinking. This indicates you are in the program mode

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Push the Recycle Button

The display should read 7---1

Push the Recycle Button

The display should read 12:00

Adjustment Note:
This is the factory default setting for the time the system will backwash. If the noise of the backwash is an issue, use the Up or Down Button to adjust the time of time (note time and AM or PM) you want the system to backwash

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Push the Recycle Button

The display should read A---3

For the Water Saver Program: Press the Up Button and move the days from A--3 to A--6

You have moved the frequency of the system backwash from every 3 days to every 6

Push the Recycle Button

water conservation procedure

Extend the days between backwash from every 3 days to 6,
lower the backwash cycle from 10 minutes to 8, lower the rapid rinse cycle from 10 minutes to 3
and as needed you can change the time the system will automatically backwash

The display should read 1---10

This is the 10 minute length of time for the first cycle in the backwash which will be reduced to 8 minutes

For the Water Saver Program: Use the Down Button and change this number to 1---8

Push the Recycle Button

The display should read 2---5

This is the length of time for the rest between the backwash cycles - Do not adjust

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Push the Recycle Button

The display should read 3---10

This is the 10 minute length of time for the rapid rinse and final cycle which will be reduced to 3 minutes

For the Water Saver Program: Use the Down Button and change this number to 3---3

Push the Recycle Button

The display should read 4-off

Push the Recycle Button

The display should read o---1

Push the Recycle Button

The display should read LF60

Push the Recycle Button

You should be back at the home screen displaying the clock.

Reset your time of day using the Up or Down Buttons to adjust the clock to the current time of day.

Did You Know?

- Self-cleaning filtration systems last longer and filter effectively
- Systems that do not self-clean have short lives and poor filtration results (**see test results below**)
- EWS offers you control over your system's water use
- Self-clean can be turned off or on when needed
- EWS gives you flexibility other systems do not provide
- Water used during EWS self-clean is filtered and reusable

Make the Smart Choice.

Do good for yourself, your family, your pets (and plants), and the environment.

Features	EWS	Others
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO
	✓ YES	X NO

MADE IN THE USA

Water conservation is important. Making sure your family's water is free of contaminants is also important. EWS has the best and easiest solution for handling both concerns. You don't have to sacrifice quality and your family's health for an ineffective non-backwashing unit.

Chemical	Self-Cleaning Bacteria being GAC is Removed	Non-Cleaning Non-Bacteria being GAC is Removed
	>4	1
	>1000	1,000
	>1000	1,000
	>1000	500
	>1000	1,000
	>1000	100
	>1000	100
	>1000	1,000
	>1000	1,000
	>1000	1,000
	>1000	1,000

Source: Role of membranes and activated carbon in the removal of endocrine disruptors and pharmaceuticals. Shane A. Snyder, Samer Adham, et al. Desalination 2007. Original study on page 277 of the study.

Available online at www.sciencedirect.com
ScienceDirect

Role of membranes and activated carbon in the removal of endocrine disruptors and pharmaceuticals

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"Granular activated carbon [GAC] was highly effective at removing all target chemicals."

"In full-scale applications, the impact of regeneration [backwashing] was observed as activated carbon filters that received regular regeneration had minimal breakthrough of organic contaminants, while non-regenerated filters displayed no removal of target compounds."

Facility #1
Testing results on backwashing GAC

Contaminant	% Removed
Atrazine	94
Caffeine	>99
Carbamazepine	>99
DEET	>99
Dilantin	>99
Erythromycin	>99
Gemfibrozil	>99
Ibuprofen	>99
Iopromide	>99
Meprobamate	>99
Sulfamethoxazole	>99

Facility #2
Testing results on non-backwashing GAC

Contaminant	% Removed
Atrazine	3
Caffeine	16
Carbamazepine	15
DEET	36
Dilantin	22
Erythromycin	8
Gemfibrozil	8
Ibuprofen	16
Iopromide	28
Meprobamate	13
Sulfamethoxazole	16

Original charts on page 177 of the study.

In two full scale GAC applications evaluated, vastly different results were observed. At a drinking water facility with on-site and regular regeneration (backwashing), removal of trace organics occurring in source water was efficiently improved.

In contrast, a facility with relatively high levels of TOC [trace organic compounds] using GAC without regular replacement/regeneration provided very little removal. These data collectively show that activated carbon in both powdered and granular forms has great potential for the removal of trace organic contaminants; however...**GAC backwashing/regeneration will be critical for excellent removal.**