

WATER CONSERVATION SETTING

Whole Home Water Filtration Systems

FOR THESE MODEL NUMBERS:

Whole Home Water Filtration & Conditioning Systems:

CS-EWS-1354-7000, EWS-CC-1465-7, EWS-CC-1865-7,
EWS-1035, EWS-1054, EWS-1354, EWS-1354-HF, EWS-1354-11/2

Whole Home Water Filtration Systems:

CS-CWL-1354-7000, CWL-CC-1465-7, CWL-CC-1865-7,
CWL-1035, CWL-1054, CWL-1354, CWL-1354-HF, CWL-1354-11/2

for all
Valves with Blue Screen Display
January 2008 - December 2017



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
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ALL FILTRATION PRODUCT PROUDLY MADE & ASSEMBLED IN THE USA

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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 maintainaing the filter capabiltieis and the filter longevity

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 contaminants.

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.

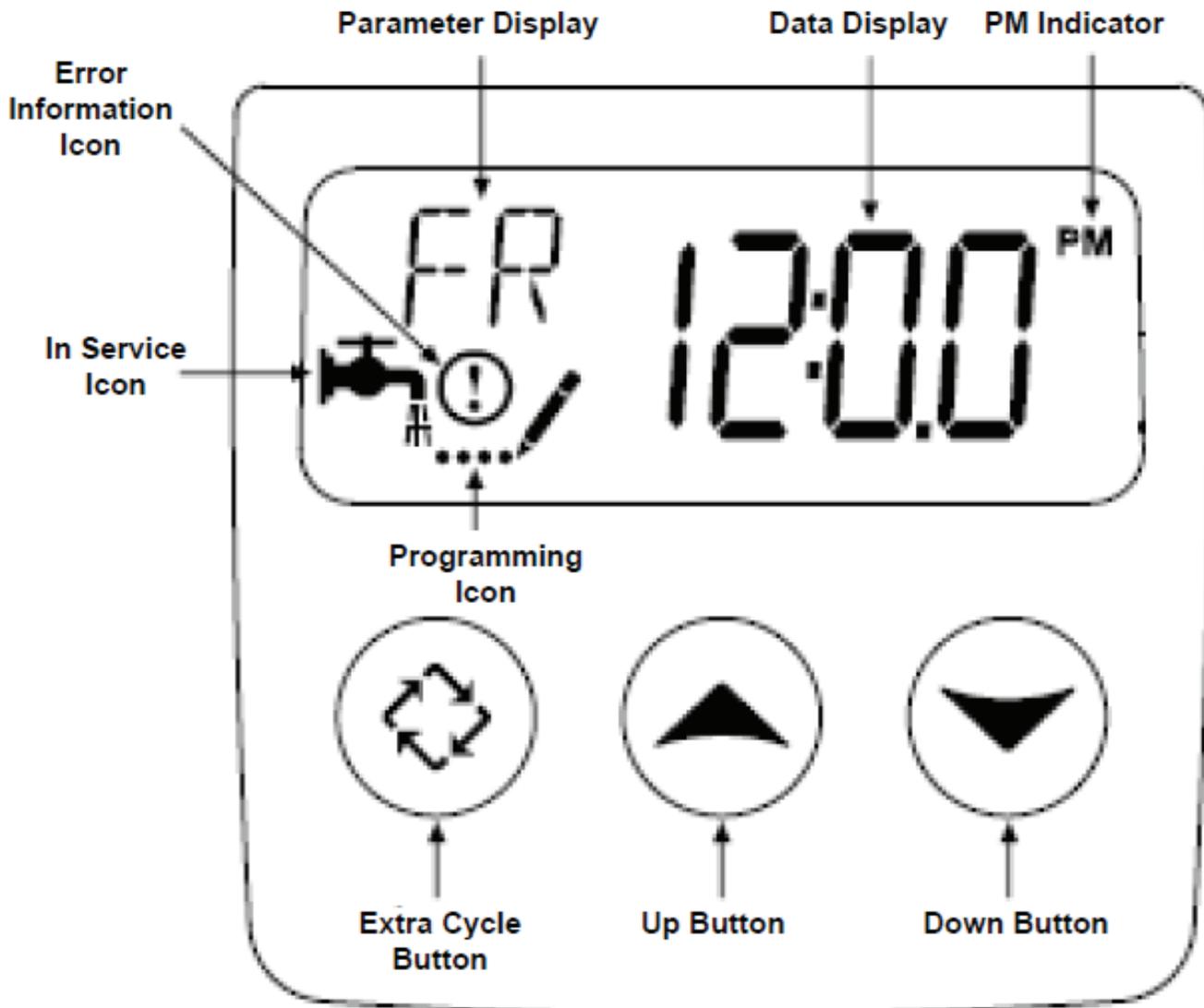
In Simpler Terms (if you do not backwash):

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

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

this is the home screen where you will start



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

You will see TD 12:01^{PM}


Release and Wait until

You will see 12:01^{PM}

Press and Hold both the Up & Down Button at the same time until

You will see DF GAL


Press the Extra Cycle Button

You will see VT FLTR


Press the Extra Cycle Button

You will see CT tc


Press the Extra Cycle Button

You will see NT _ _ _ 1


on to the adjustments you will need to make

water conservation procedure

Extend the days between backwash from every 6 days to 10,
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

Press the Extra Cycle Button

You will see DO 6

Press the Up Button and move the days from 06 to 10

You have moved the frequency of the system backwash from every 6 days to every 10

Press the Extra Cycle Button

You will see RT 12:01^{AM}

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

Press the Extra Cycle Button

You will see BW 10

Press the Down Button and adjust the time of the backwash to 8

You have reduced the backwash time to 8 minutes from 10

Press the Extra Cycle Button

You will see RR 10

Press the Down Button and adjust the time of the rapid rinse to 3

You have reduced the rapid rinse time to 3 minutes from 10

Press the Extra Cycle Button

.....and you will return to the Home Screen and you are finished

Reset to the correct time and make sure PM Indicator is on for PM and off for AM

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

Facility #2
Testing results on **non-backwashing** GAC

Contaminant	% Removed		Contaminant	% Removed
Atrazine	94		Atrazine	3
Caffeine	>99		Caffeine	16
Carbamazepine	>99		Carbamazepine	15
DEET	>99		DEET	36
Dilantin	>99		Dilantin	22
Erythromycin	>99		Erythromycin	8
Gemfibrozil	>99		Gemfibrozil	8
Ibuprofen	>99		Ibuprofen	16
Iopromide	>99		Iopromide	28
Meprobamate	>99		Meprobamate	13
Sulfamethoxazole	>99		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.**