

# Air Scour Your Backwash – Save Water and Increase Performance



**EVERGREEN**  
BY PARGREEN

# EverGreen Air Scour Technology Systems

## One-of-a-kind Design – Featuring the Power of Air Scour!

In backwash, air scour is added as a supporting measure to improve the efficacy of removing the soiling material from the filter. Scouring the media bed with air significantly improves the system's ability to clear debris, pollutants, and inorganics from the filter media substrate.

Developed with the Earth in mind, supporting backwash with Air Scour reduces the volume of water going to drain. The upward force of air replaces the need for large volumes of hydraulic lift. Here is why; without an air scour cycle, water flow (hydraulics) provides the simple lift and tumble used to clear soiling and debris from the media substrate. Straight reverse-flow water requires more gallons to wash and rinse the media bed. Due to the enhanced power of the air scour, the bed clears faster and effectively. The clearing force is air, rather than water – resulting in less water to drain. Using our Air Scour, rather than high-volume reverse flow water, for clearing a media bed reduces flow (< 2 gpm) to drain by nearly 80% in the scour cycle.

## Why use Air?

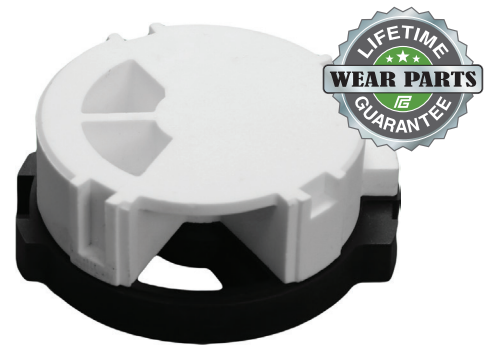
Using air instead of water to achieve better cleaning. The system fluidizes the media bed with an initial reverse flow, allowing air scour to lift and aggressively tumble the media substrate. This loosens and removes the crust from the catalyst and lifts the trapped debris from the media bed.

In addition, media utilizing a manganese dioxide catalyst needs free oxygen to keep the catalyst in a dioxide state – manganese dioxide and manganese monoxide move readily between states – and the air scour provides ample O<sub>2</sub> to keep the catalyst functional.

*\* Filters available with or without Ozone Charger*

## NEW to the System Platform – Adding Ozone

Where organic pollutants in the source water fouls media beds and destroy system performance, Pargreen Water Technologies adds ozone (where applicable) to scour the media substrate with a biocidal inhibitor O<sub>3</sub>. This supporting measure assists the Air Scour in clearing the bed and inhibiting organic growth within the media bed and controls.



## The History of Air Scour

Air Scour technology dates to the late 1800's. Used extensively in municipal and industrial filtration plants for clearing filter beds, air scour conserves water by eliminating much of the high-flow hydraulic backwash going into drain. This is a recognized "Best Practice" in filtration.

Until now, this Best Practice was unavailable in a residential and light commercial platform. Using a one-of-a-kind ceramic control and proprietary software, Pargreen Water Technologies created their Air Scour system. It is the only Residential and Light Commercial Air Scour ceramic-based system in the WORLD!

**Available exclusively from Pargreen Water Technologies' Distributors and Dealers.**

## Designed with Water Conservation in Mind

The Air Scour technology comes in four system platforms. Each system design targets specific contaminants – from iron and manganese, sulfur gas odor, to disinfection products and byproducts.

The supporting media substrates used in the Air Scour system include industry standard, with years of historical performance data, to new emerging technologies that deliver superior results using minimum water for cycling.

Adding Air Scour enhances the performance of long-standing media technologies and provides the new media technologies with the advances regeneration requirements to function while producing less than half the waste water.



## The Air Scour Technology is Available Exclusively in the EverGreen Series of Residential Filtration Systems

### Ferrous Iron

- Using a Polymer Substrate
- Requires 75% less water to regenerate
- Utilizes Catalytic Collection

### Ferric and Ferrous Iron

- Birm System without a capture air head
- Recharges the Manganese Dioxide with O<sub>2</sub> from Air Scour

### Multiple Solution and Suspended Metal and Sulfur Gas

- Uses a ceramic substrate coated with MnO<sub>2</sub> and Zinc Oxide as a bio-inhibitor
- Recharges from the O<sub>2</sub> in the Air Scour

### Catalytic Carbon

- Centaur Cat Carbon 12 x 40
- Available with up-flow Ozone scour to protect bed from organics
- Catalytic carbon recharges with O<sub>2</sub> in Air Scour

*Pargreen is constantly developing new ways to utilize Air Scour Technology.*



## EverGreen Performance Specifications

All Systems Use The <b>EVERGREEN</b> Control					Gallons Per Minute			
Model Number	Tank Size	Media	Media Volume ft <sup>3</sup>	MnO <sub>3</sub> Catalyst	Standard Service Flow	Intermittent High Flow	Air Scour Flow Rate	Backwash Flow Rate
FSB1054-PWT4-BR-ASC	10" x 54"	Birm	1.5	YES	3.8	5.7	1.0	6.5
FSB1252-PWT4-BR-ASC	12" x 52"	Birm	2.0	YES	5.5	8.2	1.3	9.4
FSB1354-PWT4-BR-ASC	13" x 54"	Birm	2.5	YES	6.5	9.7	1.7	11.1
FSB1054-PWT4-CC-ASC	10" x 54"	Cat Carbon	1.5	NO	6.0	9.0	1.0	6.5
FSB1252-PWT4-CC-ASC	12" x 52"	Cat Carbon	2.0	NO	12.0	18.0	1.3	9.4
FLB1354-PWT4-CC-ASC	13" x 54"	Cat Carbon	2.5	NO	14.5	21.8	1.7	11.1
FSB1465-PWT4-CC-ASC	14" x 65"	Cat Carbon	3.0	NO	16.0	24.0	2.0	12.0
FSB1054-PWT4-FC-ASC	10" x 54"	Clino Zeolite	1.5	NO	3.8	5.7	1.0	8.2
FSB1252-PWT4-FC-ASC	12" x 52"	Clino Zeolite	2.0	NO	5.5	8.3	1.3	11.8
FSB1354-PWT4-FC-ASC	13" x 54"	Clino Zeolite	2.5	NO	6.5	9.8	1.7	13.8
FSB1054-PWT4-FC-ASC	10" x 54"	MnO <sub>3</sub> Polymer	1.5	YES	7.5	11.3	1.0	1.6
FSB1252-PWT4-FC-ASC	12" x 52"	MnO <sub>3</sub> Polymer	2.0	YES	10.0	15.0	1.3	2.4
FSB1354-PWT4-FC-ASC	13" x 54"	MnO <sub>3</sub> Polymer	2.5	YES	12.5	18.8	1.7	2.8
FSB1465-PWT4-FC-ASC	14" x 65"	MnO <sub>3</sub> Polymer	3.0	YES	15.0	22.5	2.0	3.0

### How to Choose the Right Air Scour System

- Deciding on the right Air Scour system for a water challenge starts with an accurate water analysis.
- Consult with your Regional EverGreen Dealer when choosing the Air Scour system that best fits your water and your conservation requirements.
- Water is our MOST important resource. Consider water conservation when choosing a water system to improve the quality of your H<sub>2</sub>O!

Contact Your **EVERGREEN** Dealer:



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