

## ELIMINATE RUST STAINING, AS WELL AS SULFUR “ROTTEN EGG” ODORS WITH THE NELSEN AIO™ AIR INJECTION OXIDIZING SYSTEMS.

Iron and Sulfur are two of the most common elements found in nature. While both are extremely important for everyday life, both are a nuisance in water and can cost you money and frustration.

Iron staining is a common problem in homes today. It causes orange staining on fixtures, as well as dingy clothes, and sometimes can have negative effects on both hair and skin. A “rotten egg” odor easily detects sulfur and is sometimes associated with yellow staining.

All these problems can be eliminated with the Nelsen AIO™ Air Injection Oxidizing Filtration System.

**Nelsen AIO®**

AIR INJECTION OXIDIZING FILTER SYSTEM

FOR IRON AND SULFUR REMOVAL




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# AIR INJECTION OXIDIZING SYSTEM



## Benefits of a **Nelsen Water Treatment** System



### REDUCED IRON STAINING:

Iron staining is a common problem in homes today. It causes orange staining on fixtures and dingy clothes and sometimes can have negative effects on both hair and skin.



### REDUCED SULFUR SMELL:

Sulfur is easily detected by a “rotten egg” odor and is sometimes associated with yellow staining.



### PROTECT YOUR APPLIANCES:

By reducing the iron and sulfur buildup in your water your appliances will last longer. Rust and slime buildup make your appliances work harder and less efficiently, requiring more maintenance or replacement.



### EFFICIENT AND CHEMICAL FREE:

The need for additional equipment such as air tanks, feed pumps or harsh chemicals (like those used in Manganese Greensand Systems) is virtually eliminated!

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# 2510/5600 SERIES

Nelsen AIO®
AIR INJECTION OXIDIZING FILTER SYSTEM

## USING NATURE'S OWN PROCESS

These naturally occurring elements can be removed using nature's process of oxidation. The Nelsen AIO™ maintains an "air pocket" in the top of the tank while the system is in service. As water passes through the air pocket, iron and sulfur are oxidized. The Nelsen AIO™ filter media bed removes the oxidized iron and sulfur from the water. Additionally, dissolved oxygen is added to the water.

## PROVEN TECHNOLOGY

The Nelsen AIO™ system includes the Pentair Fleck 2510AIO AiQ or 5600AIO SXT electronic control valve that automatically backwashes the system to clean the media and flush everything down the drain. The Nelsen AIO™ puts the whole oxidation process inside one tank, keeping maintenance costs and downtime to a minimum.

Made by Pentair Fleck, a leading manufacturer of control valves in the US, the digital control valve allows for easy setup and automatic operation.

The Nelsen AIO™ can remove up to 5 ppm Hydrogen Sulfide and up to 7 ppm Iron. A daily backwash will remove accumulated iron and replenish the filter media bed. The regeneration process also adds a fresh air pocket to the system. Calcium and hardness can also be removed when a water softener is placed after the Nelsen AIO™.

*Nelsen Corporation is the largest family-owned manufacturer/distributor of water treatment products in the United States. Headquartered in Medina, Ohio with additional distribution centers in Arizona, Texas, Florida, and Wisconsin, our company has seen substantial growth over the years. Since 1954 Nelsen Corporation has remained committed to the professional water treatment dealer, their customers and the communities that they serve. More than 70 years of experience in water treatment have been incorporated into our systems yielding the very best equipment for your family or your business.*

FLECK
Pentair Water



AIO System featuring the Pentair Fleck 5600AIO SXT Control Valve Shown with Optional Tank Jacket





AIO System featuring the Pentair Fleck 2510AIO AiQ Control Valve Shown with Optional Tank Jacket



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AIO®

AIR INJECTION OXIDIZING FILTER SYSTEM

| | 5600AIO SXT | 2510AIO AiQ |
|---|---|---|
| Inlet/Outlet Fittings | 3/4", 1" | 3/4", 1" |
| Cycles | 3 | 4 |
| Valve Material | Fiber-reinforced polymer | Fiber-reinforced polymer |
| Service Flow Rates | 2.5 - 3.5 GPM | 2 - 7.5 GPM |
| Operating Pressures | 20-75 PSI | 20-75 PSI |
| Operating Temperatures | 34-110 Degrees | 34-110 Degrees |
| Electrical Specification | 24V - 50/60 Hz | 24V - 50/60 Hz |

- Built in backup of settings during power outages
- Simple diagnostics and design provide for easy maintenance

- An air pocket is introduced into the top of the filter tank
- As water passes through this pocket the iron and sulfur in the water are oxidized

- Custom blends of media for efficient reduction of iron and sulfur

- Delivers evenly distributed and high quality flows



**Arrows indicate water flow through the system as it oxidizes and filters.**



Optional Enpress® Vortech™ Plate Tank style distribution system, provides increased backwash efficiency using less water and saving money

## SYSTEM FEATURES & OPTIONS

### 5600AIO SXT Key Features

- Large LCD display with 48 hours of internal power backup capacitor
- LCD display alternates between time of day, volume remaining or days to regeneration
- Down-flow regeneration
- Backwash capacity handles tanks up to 13" for filter applications

### 2510AIO AiQ Key Features

- Top mount control with adjustable cycles delivers controlled up-flow backwash, air draw, rapid rinse, and down-flow service
- Time-tested hydraulically balanced piston, seal and spacer concept to control service flow and regeneration
- Non-corrosive, high-tech material construction
- Excellent flow rates - 2 GPM continuous, 7.5 GPM peak
- Backwash capacity handles tanks up to 14" diameter

### System Options

- Corrosion free fiber-reinforced polymer or stainless steel bypass valve
- Auxiliary switches
- Optional stylish tank jackets help reduce tank condensation

**Ready to get rid of iron and sulfur from your water? Contact:**

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