



# Air Injection Filters

## Iron Removal

### What is Iron?

Iron is a common element found in most water supplies, particularly well water. The human body needs iron as an essential nutrient for development. However, high iron content in water causes several problems making it essential to remove Iron from the water supply.

Excessive Iron causes deposits on pipelines, pressure tanks, water heaters and water softeners, reducing the available water flow and pressure. It affects the flavor and color of food and water. It may react with tannins in coffee, tea and some alcoholic beverages to produce a black sludge, which affects both taste and appearance. Iron causes reddish-brown staining of laundry, porcelain, dishes, utensils and even glassware. Soaps and detergents do not remove these stains, and use of chlorine bleach and alkaline builders (such as sodium and carbonate) may intensify the stains.

A problem that frequently results from iron or manganese in water is iron *bacteria*. These nonpathogenic (not health threatening) bacteria occur in soil, shallow aquifers and some surface waters. The bacteria feed on iron in water and form red-brown (iron) slime in toilet tanks and can also clog water systems.



### Removing Iron The Neotec Way!

Neotec Air Injection Iron Filters are manufactured to the highest level of quality, designed & built for reliable, consistent & trouble-free operation. Neotec Systems are manufactured with NSF-approved components, giving you the guarantee of a reliable product. In Neotec Iron-Removal Systems, undissolved Iron is oxidized by means of an air injector and a special media within the filter attracts the oxidized iron and adsorbs it onto the media bed. The bed is then periodically back-washed to rid it of the trapped iron.

### The Neotec Advantage

Unlike many Iron removal systems that require the use of chemicals, the Neotec Air Injector Iron Filter is chemical free & removes Ferrous & Ferric iron.

- Iron is oxidized on the filtration media and a simple back-washing initiated by an automatic control valve cleans the bed at preset intervals.
- Prevents staining on bathroom & kitchen fixtures!
- No more iron in your washing machine!
- Clothes are cleaner and whites are whiter!
- Prevents staining on dishes & your dishwasher!
- Clearer water at every tap including showers
- Better quality drinking water!





## Air Injection Iron Filters

### Available Options



**Chrome Jacket:**

Thermally insulated coated chrome jacket for that sanitary look.  
(Available in NGS 948 & NGS 1047 models)



**Standard Style:**

Thermally insulated white standard plastic jacket.



**Control Valves:**

Choice of automatic time-based and metered regeneration valves. Available in 3/4" & 1" configuration.

### Technical Specifications

Neotec Model	Flow Rates USGPM		Media Tank Size Dia x Height	Valve Type
	Service	Backwash		
NAIF 948	2.5	4.0	9" x 48"	5600 CC
NAIF 948 - 1"	2.5	4.0	9" x 48"	2510 CC
NAIF 1047	3.0	5.0	10" x 47"	5600 CC
NAIF 1047 - 1"	3.0	5.0	10" x 47"	2510 CC
NAIF 1252	4.0	7.0	12" x 52"	5600 CC
NAIF 1252 -1"	4.0	7.0	12" x 52"	2510 CC

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