



# *Iron Master*

**At Last...  
An Answer To  
Your Iron Problems!!**

*It Does The Job....*

**Removes Iron, Hydrogen Sulfide and Manganese**

**No more staining or rotten egg odor**

**No more Iron colored or Iron tasting water**

*And It's Simple...*

**No expensive and messy chemicals**

**No pumps or venturris to go wrong**

**No maintenance and no filters to change**

*Guaranteed Results!!!*

**By:**

**Wood Bros. Inc.**

Quality Water Treatment Products Since 1972





# Iron Master

U.S. PATENT No. 5,919,373

## *How does the Iron Master work?*

When water enters the **IRON MASTER**, it passes through a bubble of compressed air that adds oxygen to it. The water then passes through a filter bed. The filter material enhances reaction that separates the iron, hydrogen sulfide and manganese from the water. The insoluble flakes of iron and manganese that result are then caught by the filter bed. The purified water then flows to your faucets.

## *Why is it so economical?*

The **IRON MASTER** costs almost nothing to run. This is Because:

- The filter material does not change chemically during the process, so it is not used up and will last indefinitely.
- The other key element in the whole process is the oxygen that is freely available in the air.
- Finally, the replenishment process is largely driven by the water pressure in your system, so the **IRON MASTER's** only running cost is a handful of dollars each year in electricity and water.

## *The chemistry behind it all...*

The filter media, which is Manganese Dioxide based, Catalyses a reaction that turn ferrous iron, usually found in water in the form of ferrous bicarbonate  $[\text{Fe}(\text{HCO}_3)]$ , which is soluble in water, into ferric oxide ( $\text{Fe}_2\text{O}_3$ ) and ferric Hydroxide  $[\text{Fe}(\text{OH})_3]$  which are insoluble. This is the same reaction that takes place when iron-bearing water is exposed to air and which leads to staining of fixtures.



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