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Reliable water filtration for problem water removal without the use of dangerous chemicals.

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Effective and Economical

SIM is intended to be an effective and economical way to remove iron from water without the use of messy and dangerous chemicals, expensive pumps or an external venturi. The SIM valve uses a patented construction to create an air bubble at the upper portion of the tank to oxidize any ferrous iron prior to being filtered by the media. It can also be used to remove concentrations of manganese and hydrogen sulfide by increasing the pH of water and trapping the precipitated iron.

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How does the SIM work?

SIM works by adding oxygen to the incoming water by passing it through a bubble of compressed air. The water is then passed through a special filter bed. The special media not only increases the pH of the water to enhance iron removal but also acts as a physical barrier to trap iron, manganese and sulfer precipitate.

As more water passes through this iron filter, the oxygen in the unit is used up, and the media gets loaded with precipitate. The regeneration process then begins in order to replenish the supply of oxygen, and to backwash the precipitated iron, manganese, and sulfur trapped in the media bed. The iron removal efficiency will be more effective with high pH water.

The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.



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- Simple Serviceability
- Heavy Duty Mineral Tank
- User-friendly Electronics
- Adjustable cycle times
- Meter Immediate, Meter Delayed, Meter with Day Override, Calendar Clock mode
- Unique bypass with an integrated space saving turbine meter and sample port on the inlet. One-piece design avoids meter jamming
- Time saving quick connect fittings on bypass
- Quick connect drain line o-ring eliminates need for Teflon
- Power cord even has quick connect for easy valve spin on
- Hose clamp and 10' of drain tubing included

Specifications and Performance

Description	Media Cu. Ft.	Pipe Size Inches	Flow Rates USGPM			Shipping	Maximum	Maximum	Maximum		
			Service	Peak	Backwash	Weight - Lbs	Capacity Iron (ppm)	Capacity Sulfur (ppm)	Capacity Manganese (ppm)	Mineral lank Size (inches)	Space (inches)
SIM Iron Removal Filter	1.0	3/4"	3	6	4	145	30	5	1.0	9 x 48	25 x 12 x 60

* The standard filter unit comes with the bypass and check valve. The SIM filter comes with a special media that removes iron, manganese and hydrogen sulfide from water by increasing the pH of water and traps precipitated particles.

Additional Notes:

Maximum Water Temperature = 110°F (43°C) Maximum Operating Pressure = 80 PSIG (551 kPa) Electrical: 24 VAC/60Hz (120V to 24V approved transformer)

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C B IAPMO Tested and Certified

- The pressure drop for the stated peak flow rates will not exceed 15 PSIG through these devices.
- Do not use where water is microbiologically unsafe
- The manufacturer reserves the right to make product improvements which may deviate from the specifications and descriptions stated therein, without obligation to change previously manufactured products or to note the change.

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