

**MACCLEAN®**

**Chem-Free™**

**IRON REMOVAL**

S Y S T E M

# Chem-Free™

## IRON REMOVAL

S Y S T E M

*You never have to slave over rust stains again. MacCLEAN filter systems reduce the iron level in your water.*

**PATENTED PROCESS.** Developed by Dr. John McLean. The system has surpassed all other filters in its ability to remove iron. There is little, if any, cost of operation.

**NO CHEMICAL REGENERANT.** No salt, potassium permanganate, chlorine or any other chemical is used. The system oxidizes iron and collects it in the filter media.

Periodically, the iron is flushed from the filter tank using water only.

**INCREASES pH.** The system increases the pH to aid iron reduction.

**REMOVES SULFUR ODOR.** Rotten egg smell and corrosion resulting from hydrogen sulfide is eliminated\*.

**CONSERVES WATER.** MacCLEAN filters use only a fraction of the water required by ordinary filters to regenerate. As little as 50 gallons is required for the most popular model.

\* Removes up to 2-3 ppm of sulfur. Requires an air-water pressure tank.

**MacCLEAN Chem-Free Iron Filters** feature Seamless Tanks and Components.



**- USER FRIENDLY FILLPORT**

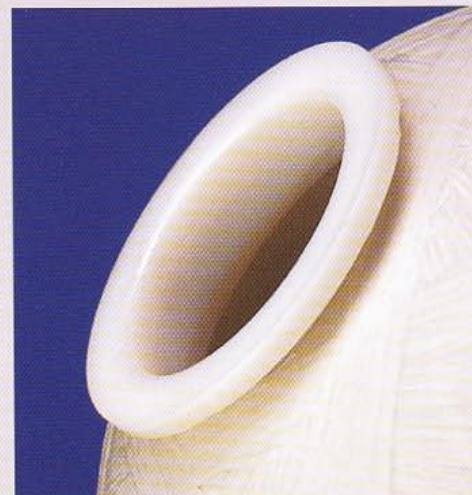
Steep passage way makes adding media easy. No more dome holes! No threads to cross, no leaks, no freight damage. Incorporates "QUICK RELEASE" plug with o-ring seal for easy removal and tight closure.

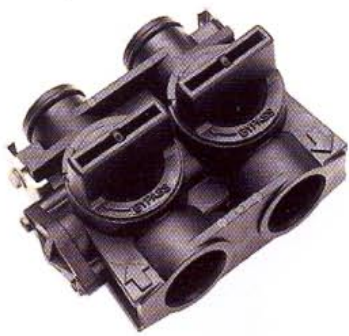
**- SEAMLESS CONSTRUCTION**

The flange is an integral part of the liner. No glue joints or heat welded bonds to fail and leak.

**- "QUICK CONNECT" FEATURE**

A three piece clamp made of high-tech composite plastic, provides a quick, reliable fastener. No threads to cross.





**Convenient Bypass Valve.**  
MacCLEAN's easy to use bypass valve can direct unconditioned water past the conditioner for lawn sprinkling or to service the unit.



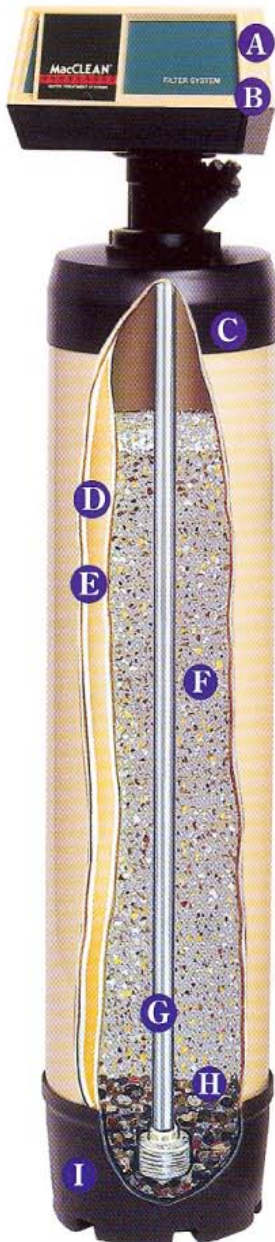
**Programmable Timer.**  
Automatically initiates backwash of filter. Each cycle can be adjusted for your particular water condition.

## Lead-free **BRASS VALVE & TIMER**



Pictured with optional brass bypass valve.

# QUALITY WATER, QUALITY LIFE .MacCLEAN®



**MacCLEAN Chem-Free Filters are built tough to provide years of trouble-free operation, even where water is very difficult to treat. Following is why you get years of service with MacCLEAN.**

**A. Rugged, solid brass, motorized piston valve.** There are no plastic parts. Our valve will stand up to the worst iron, manganese, corrosion, scale and hard water. This valve will perform year after trouble-free year. Every cycle can be programmed to fit your exact water condition. Uses as little as 50 gallons of water per regeneration and uses no salt. Its own built-in bypass provides water during the regeneration process. It also has a full one inch porting for superior flow characteristics.

**B. Convenient guest switch.** This feature provides an extra supply of filtered water when you wish. Having guests in for the weekend? Just turn the switch!

**C. Optional, decorative jacket.** The jacket compliments the protective cover on the control valve. The neutral, almond color fits with any decor.

**D. Extra thick insulation.** This prevents messy condensation.

**E. Fiberglass reinforced mineral tank.** Discover the fine features of the revolutionary mineral tank. The seamless construction of the tank liner eliminates leaks.

**F. MacCLEAN media.** Has the ability to collect iron and elevate the pH of acid water. A portion of the media is self-sacrificing when the raw water has a low pH. Periodic replenishment will be required if you have acid or manganese present in the water.

**G. Distributor tube and collector.** One inch diameter for less pressure drop. Self-cleaning collector screen provides large surface area for iron free water to exit and superb backwash capabilities.

**H. Washed quartz underbed.** Provides extra filtration and enables proper cleaning of the filter media.

**I. Self-adjusting base.** The conditioner is more efficient when level, the base is designed to compensate for uneven floors.

**-VIDEO TAPE IS INCLUDED:** This helpful tool demonstrates the installation and maintenance of the unit.

# QUALITY WATER, QUALITY LIFE...

A MacCLEAN Chem-Free Iron Filter will provide the quality of water that improves your entire lifestyle. You depend on water in so many ways. Following are a few of the benefits you will enjoy.

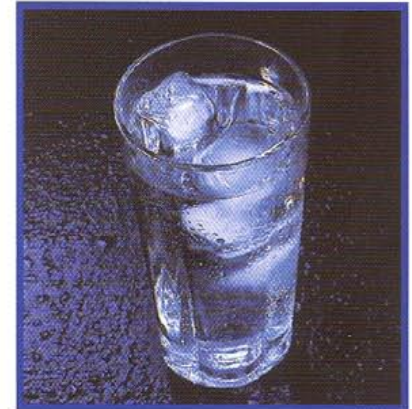
**- PROTECT PLUMBING.** No more rust stained sinks, tubs or toilets. Perhaps the greatest damage done by iron water is what you don't see. Pipes can become clogged. MacCLEAN filtered water eliminates iron build-up and lengthens the life of water using appliances.

**- IMPROVED DINING.** Foods and beverages prepared with filtered water taste and look better. Beverages retain their true color and taste.

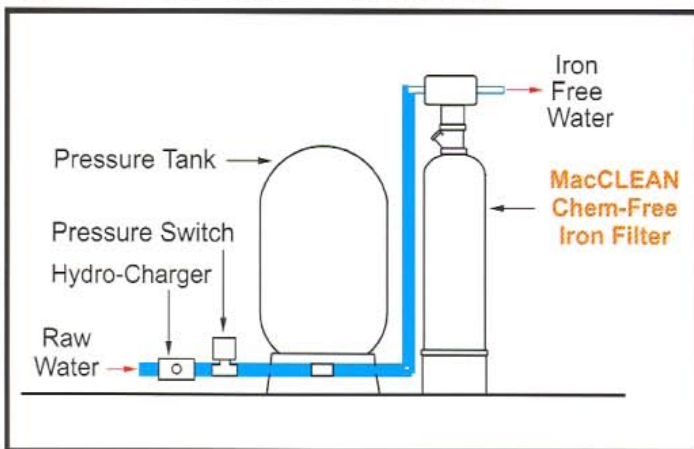
**- CLEANER LAUNDRY.** Quality water from MacCLEAN leaves your laundry clean and bright. No more ruined shirts, blouses and slacks due to obnoxious rust stains.

**- SPARKLING DISHES.** Squeaky clean dishes and glassware are yours! Dingy rust stains are eliminated.

**- PERSONAL CARE.** Bathing in iron-free water results in healthier looking and better feeling skin. Your hair will show its natural beauty when shampooed with MacCLEAN filtered water.



## Typical Installation: Private Well



Chem-Free System is manufactured and sold under U.S. patent No. 3,649,532

Distributed By:



**AQUAFRESH**  
WATER PURIFYING SYSTEMS  
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## Specifications

MODEL	MEDIA (cu. ft.)	SERVICE PIPE SIZE	FLOW RATE (gpm)				MINIMUM SPACE REQUIRED (W" x D" x H")
			Cont.	Service*	Peak*	Back Wash	
MCA0750 MCA0751	0.75	3/4" 1"	2	4	6	3	12 x 18 x 56
MCA1000 MCA1001	1.00	3/4" 1"	3	6	10	5	12 x 18 x 56
MCA2000 MCA2001	2.00	3/4" 1"	4	9	13	7	12 x 18 x 60
MCA3001	3.00	1"	5	12	16	10	14 x 18 x 78

Specifications are subject to change without notice.

### NOTES:

1. Units designed for application on manganese bearing water supplies have a "M" suffix (i.e. MCA3001M).
2. \*Do not use SERVICE FLOW RATES when sizing commercial applications or if treated water is to supply a geothermal heat pump, swimming pool, etc. (contact dealer before selecting equipment).

Manufactured By:



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