



The Iron Curtain Filtration System



U.S. Patent No.: B1 5,096,596

**Guards Against:
Iron Tasting Water
Sulfur Smell
Rust Stains
Corrosion**

The Iron Curtain™ Filtration System

Hellenbrand's Iron Curtain™ Filtration System is the single system that guards against a multitude of water problems. Imagine. No more iron taste. No more sulfur smell. No more corroding pipes. Longer life for your appliances, water heater and softener. Fresh, clean smelling, great tasting water can be yours again with the Iron Curtain™ filtration system.

Our Revolutionary Design Means Efficient Operation

The Iron Curtain™ is unlike old fashioned iron filters. Its unique operation reduces costs and maintenance while delivering years of trouble-free service.

The Iron Curtain™

- Requires no chemicals or salt for operation or regeneration
- Requires no air injectors, venturis or micronizers
- Removes dissolved and precipitated iron in high concentrations
- Automatically increases pH of acid water on type "A" Systems

Operation is simple. Mineral rich water is forced through an aeration tank which converts dissolved minerals such as iron, manganese and sulfur into physical particles. These tiny mineral particles then circulate in the system for enough time to grow to a size where they are trapped in the filter. This way the highest level of dissolved minerals can be easily removed from your water.

No Obligation Water Analysis

There is a Hellenbrand Iron Curtain™ Filter System for virtually any residential or commercial need. Your Hellenbrand dealer will be happy to test your water to determine the best system for you. Always have your water tested before you purchase.

Water Analysis			
Iron _____ (p.p.m.)	Hydrogen Sulfide _____ (p.p.m.)		
Manganese _____ (p.p.m.)	pH _____		
Tannins _____ (p.p.m.)	TDS _____ (p.p.m.)		
Iron Bacteria _____ Yes _____ No			

TDS Limit 750 p.p.m. Tannin Concentration Limit .5 p.p.m. If either of these limits are exceeded the Iron Curtain™ is not recommended for this application.

IRON CURTAIN™ SYSTEM Specifications

Model	Filter		Max. Service				Floor Space (WxHxD)
	Aeration Tank Size	Media (cu. ft.)	Inlet Outlet	Flow (gpm)	Backwash ³ Rate (gpm)		
IC-10 ¹	10" x 54"	1.5	3/4"	5.0	5.0	26" x 70" x 16"	
IC-10A ²	10" x 54"	1.5	3/4"	5.0	5.0	26" x 70" x 16"	
IC-12	12" x 52"	2.0	1"	7.0	8.0	30" x 68" x 18"	
IC-12A	12" x 52"	2.0	1"	7.0	8.0	30" x 68" x 18"	

Contact your Iron Curtain™ dealer for larger system designs up to 200 gpm service flow rates.

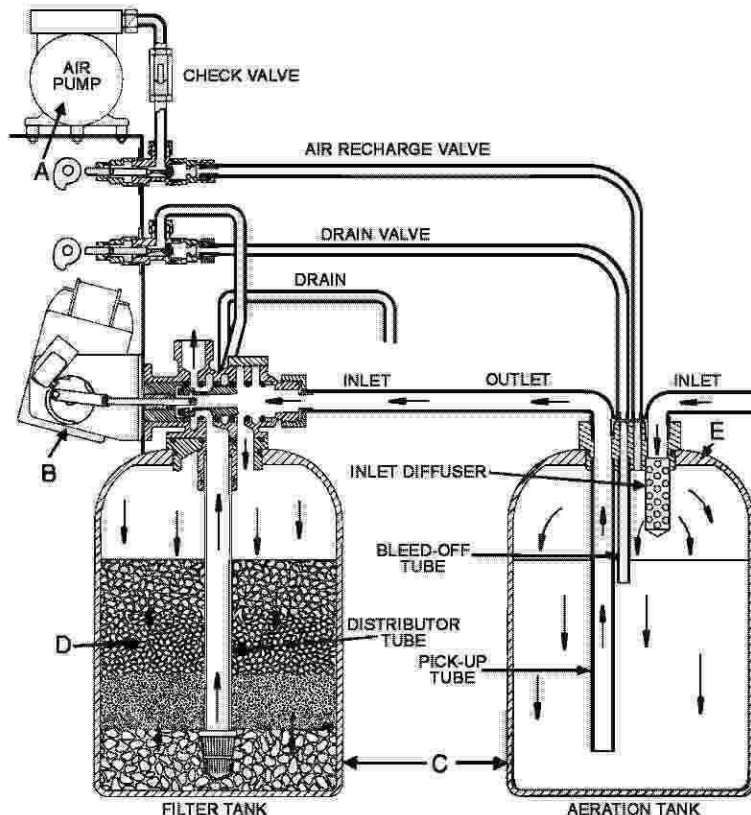
¹Model IC-10 was tested under the Water Quality Association S-200 Standard to provide filtered water with less than 0.2ppm (Fe) Iron when challenged with 10 ppm (Fe) Iron, less than 0.05 ppm (Mn) Manganese when challenged with 2 ppm (Mn) Manganese, and less than 0.2 ppm (H₂S) Hydrogen Sulfide when challenged with 10 ppm (H₂S) Hydrogen Sulfide.

²Model IC-10A was tested under the Water Quality Assn. S-200 Standard to provide filtered water with greater than 6.8 pH when challenged with water of 6.0-6.2 pH, in addition to results in ¹.

³Water temperature above 60° F will require higher backwash rates — contact factory for more information.

Actual operating conditions in Installation & Operation Manual may limit specific contaminants.

Guard Against Problem Water With The Iron Curtain™ from Hellenbrand



Parts Descriptions

A. 110 volt aeration pump automatically injects air into the aeration tank during the regeneration process without the help of injectors, venturis or micronizers.

B. Iron Curtain™ Control Center automatically controls the regeneration steps of backwash, aeration bleed-off, aeration recharge and final filter rinse before going into service. All cycles are adjustable with regeneration frequency controlled by a 12 Day Timer.

C. Non-metallic, composite mineral tanks will not rust or corrode. National Sanitation Foundation listed.

D. Iron Curtain™ filter uses multiple layers of filtering media to provide longer filter runs, higher service flow rates and higher water clarity.

E. Iron Curtain™ Aeration System sprays raw water through a head of air and then provides several minutes of additional contact time to allow the iron, manganese and/or hydrogen sulfide to fully oxidize.

Zeropoint

Water Conditioning Systems