

# Hydrotech

## BIF Series Chemical Free Iron Filter

### Remove Stubborn Iron Without Chemicals

Incoming raw water passes through a compressed pocket of air contained in the first tank. The air precipitates the iron into solid form and is removed when it passes through the filters media bed contained in the second tank. The media acts as a catalyst in the reaction between iron and oxygen that also causes the iron to precipitate into a solid.

As more water passes through the unit the air becomes depleted and the media becomes overloaded with the iron. Periodic automatic regeneration replenishes the supply of air and cleans the media of filtered iron. The media is not consumed in the iron removal process and therefore is much more economical than many other iron removal processes.



Clean, Clear  
Iron-Free  
Water



## Features:

- ➔ Exclusive NSF Certified electronic control valve (systems available with Hydrotech 89 and 565 control valves)
- ➔ Natural oxidation removes iron, sulfur and manganese without chemicals, air pumps or a venturi
- ➔ Low maintenance two tank system
- ➔ Regenerate less frequently than traditional iron filters using up to 50% less water than manganese greensand filters
- ➔ Lifetime Warranty on NSF Certified fibreglass tanks
- ➔ Seven Year Warranty on NSF Certified control valve
- ➔ Meter Immediate, Meter Delayed, Meter with Day Override, Vacation and Calendar Clock mode
- ➔ Adjustable cycle times
- ➔ 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



89 valve

- ➔ True 1" porting for high flow rates up to 18" systems. Ideal for larger homes.
- ➔ Large Backlit LCD display screen with 4 line / 80 character touch pad screen.
- ➔ Seven Year Warranty



565 valve

- ➔ Simple user friendly 2 line / 32 character display
- ➔ Rotating 'No Touch' Information Display (i.e. Date last regenerate, volume remaining)
- ➔ Seven Year Warranty

Specifications	BIF-100	BIF-150	BIF-200	BIF-300	BIF-400	BIF-500
	BIFMN-100	BIFMN-150	BIFMN-200	BIFMN-300	BIFMN-400	BIFMN-500
Typical Service Flow Rate	3.0 gpm	4.0 gpm	5.0 gpm	6.0 gpm	7.0 gpm	9.0 gpm
Peak Flow Rate	6.0 gpm	10.0 gpm	12.0 gpm	14.0 gpm	16.0 gpm	18.0 gpm
Backwash Flow Rate	5.0 gpm	5.0 gpm	7.0 gpm	10.0 gpm	14.0 gpm	21.0 gpm
Filter Media Volume (ft <sup>3</sup> )	1.0 ft	1.5 ft	2.0ft	3.0 ft	4.0 ft	5.0 ft
Filter Tank Size	10x44	10x54	12x52	14x65	16x65	18x65
Air Contact Tank Size	8x44	10x54	12x52	14x65	14x65	14x65
Shipping Weight	150 lbs	188 lbs	248 lbs	368 lbs	443 lbs	518 lbs
Media Loaded	Yes	Yes	No	No	No	No
Maximum Iron	30.0 ppm					
Hydrogen Sulfide	5.0 ppm					
Mangansese	BIF Model 0.0 ppm / BIFMN Models up to 1.0 ppm					
Iron Bacteria Removal	Yes					
pH	BIF Models pH 7.0 - 8.5 / BIFMN Models pH 6.0 -6.9					
Plumbing Connections	3/4" 90					
Electrical Requirements	Input 120V 60 Hz - Output 12V 650mA					
Water Temperature	Min 39 - Max. 100° F					
Water Pressure	Min. 20 - Max. 125 psi					

- ➔ Voltage 12V/60Hz (120V to 12V wall mount transformer included)
- ➔ Pipe Size 3/4"
- ➔ Max Water Temp = 110oF (43oC)
- ➔ Max Operating Pressure = 100 PSIG (689 kPa)
- ➔ At stated service flow rates the pressure drop through these devices will not exceed 15 PSIG
- ➔ Do not use where microbiologically unsafe

\*MN Models for low pH 6.0 - 6.9 & Manganese up to 1.0 ppm

Note: BIF/BIFMN systems using 565 Controls only available on 1.0 and 1.5 cubic foot units

# Hydrotech

A Division of



In the U.S.A. 800-354-7867  
In Canada 877-299-5999  
www.hydrotechwater.com

Your Local Water Treatment Professional

### QUALITY WATER SERVICES

1700 Saltillo Rd  
Roca, NE 68430  
402-423-0909