



CONTROL
VALVE



PRESSURE
TANK



**TRUE 1"
PORTING**



IAPMO R&T Certified to
NSF/ANSI 42, 372 and
CSA B483.1.

Water Filter

Remove Iron, Manganese and Sulphur Without Chemicals

The BIF uses a two-tank design to remove stubborn iron, manganese and sulfur without chemicals. The first tank contains a pocket of compressed air that precipitates the iron into solid form. The second tank removes the solidified iron as it passes through the media bed. The media acts as a catalyst in the reaction between iron and oxygen that also causes the iron to precipitate into a solid.

KEY FEATURES

Natural Oxidation: Removes iron, manganese and hydrogen sulfide (H₂S) without chemicals, air pumps or a venturi.

High Flow Rates: For large residential and commercial applications.

Efficient Regeneration: The BIF regenerates less frequently and uses up to 50% less water than single-tank iron filters. Periodic automatic regeneration replenishes the supply of oxygen and removes iron from the media bed.

VALVE FEATURES



Technical Specifications

PROFESSIONALLY ENGINEERED FOR PERFORMANCE

SPECIFICATIONS	NVO489DFBIF-100	NVO489DFBIF-150	NVO489DFBIF-200	NVO489DFBIF-300
	15050190-1	15050191-1	15050192-1	15050193-1
	NVO489DFBIFMN-100	NVO489DFBIFMN-150	NVO489DFBIFMN-200	NVO489DFBIFMN-300
	15060194-1	15060195-1	15060196-1	15060197-1
Service Flow Rate	3.0 US gpm	4.0 US gpm	5.0 US gpm	6.0 US gpm
Peak Flow Rate	6.0 US gpm	10.0 US gpm	12.0 US gpm	14.0 US gpm
Backwash Flow Rate	5.0 US gpm	5.0 US gpm	7.0 US gpm	10.0 US gpm
Media (Cubic Feet)	1.0 ft³	1.5 ft³	2.0ft³	3.0 ft³
Pressure Tank Size (Inches)	9 x 48	10 x 54	12 x 52	14 x 65
Air Contact Tank Size (Inches)	9 x 48	10 x 54	12 x 52	14 x 65
Shipping Weight	BIF: 170 lbs BIFMN: 168 lbs	BIF: 200 lbs BIFMN: 197 lbs BIFMM: 164 lbs	BIF: 381 lbs BIFMN: 357 lbs	BIF: 409 lbs BIFMN: 402 lbs
Media Loaded	Yes	BIF/BIFMN: Yes BIFMM: No	No	No
Maximum Iron	BIF and BIFMN models 30.0 ppm BIFMM models 10.0 ppm			
Hydrogen Sulfide	BIF and BIFMM 1.0 ppm / BIFMN 3.0 ppm			
Manganese	BIF and BIFMM 0.0 ppm / BIFMN up to 1.0 ppm			
Iron Bacteria Removal	No			
pH	BIF pH 7.0 - 8.5 / BIFMN pH 6.5 - 7.5 / BIFMM pH 7.2 - 8.5			
Plumbing Connections	INCLUDES 1" 90° NPT ELBOWS			
Electrical Requirements	INPUT 120V 60 Hz - OUTPUT 12V 650mA			
Water Temperature Limits	MIN 40° - MAX 110° F (4° - 43° C)			
Water Pressure Limits	MIN 30 - MAX 125 PSI (207 - 862 KPA)			

BIFMN Models: For low pH and/or high manganese applications.

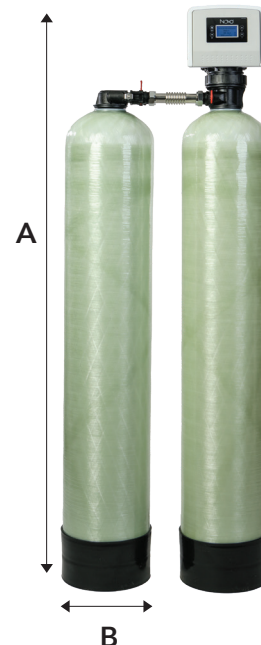
At stated service flow rates the pressure drop through these devices will not exceed 15 PSIG.

Do not use where microbiologically unsafe.

Contact Customer Service or Your Sales Representative for Application Guidelines.

DIMENSIONS

NVO489BIF	100	150	200	300
TANK/VALVE A x B (inches)	60.0 x 23.0	66.0 x 24.0	64.0 x 26.0	78.0 x 34.0



QUICK LINKS



Homeowner's Manual



Installation Guide



Maintenance Guide



Trouble Shooting Guide



Parts Breakdown



Programming Guide



Warranty Sheet

