

## **NVO489BIF Water Filters** SPECIFICATION SHEET



### **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**

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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 Four Line Touch Pad True 1" Porting rotating information For high-flow display. Just set the applications. time and date. 1" 90-Degree Elbows Included for easy installation. **48-Hour Programming Timesaving Quick Connect** Memory Automatic Fittings & Pre-Installed programming restore Bypass Quick connect for up to 48 hours fittings on bypass, drain during power loss. line (10' included), air check valve and power

> TankMate™ Unique design sends water through both tanks in a single pass.

LCD Display No-touch



# **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 ft <sup>3</sup>	1.5 ft <sup>3</sup>	2.0ft <sup>3</sup>	3.0 ft <sup>3</sup>	
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				
рН	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)				



Homeowner's

Installation Guide



Maintenance Guide



Trouble Shooting Guide



Parts Breakdown

Programming Guide



#### DIMENSIONS

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

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

Contact Customer Service or Your Sales Representative for Application Guidelines.

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

Do not use where microbiologically unsafe.















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 Designed, Engineered & Assembled in North America

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