



CONTROL VALVE



PRESSURE TANK



Water Filter

Economical, Chemical-Free Removal of Iron, Manganese and Hydrogen Sulfide

The AIO's single tank, space-saving design uses a unique process to create an air bubble at the upper portion of the tank to oxidize ferrous iron prior to being filtered by the media. It can also be used to remove low concentrations of dissolved hydrogen sulfide and manganese from water.

KEY FEATURES

Iron Removal: Special media in the AIO and AIO-M increases the pH of the water to enhance iron removal and acts as a physical barrier to trap iron precipitate. The iron, manganese and hydrogen sulfide are removed more effectively with high pH water.

Economical & Easy to Maintain: Removes iron, manganese and hydrogen sulfide (H₂S) without chemicals, air pumps or a venturi.

Lasting Performance: The AIO regenerates to replenish the supply of oxygen and remove iron from the media bed.

Inlet Check Valve: The filter is fitted with an inlet check valve to prevent any air from flowing backwards out of the filter tank.

VALVE FEATURES

True 1" Porting
For high-flow applications.

1" 90-Degree Elbows
Included for easy installation.

Timesaving Quick Connect Fittings. Bypass included
Quick connect fittings on bypass, drain line (10' included), air check valve and power cord.

Unique Bypass Design
Integrated turbine meter saves space, eliminates connections and is more durable.

Four Line Touch Pad LCD Display No-touch rotating information display. Just set the time and date.

48-Hour Programming Memory Automatic programming restore for up to 48 hours during power loss.

TRUE 1" PORTING



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



Technical Specifications

PROFESSIONALLY ENGINEERED FOR PERFORMANCE

SPECIFICATIONS	CHEMICAL FREE IRON FILTER			
	NVO489DFAIO-100	NVO489DFAIO-150	NVO489DFAIO-200	NVO489DFAIO-300
	15065001	15065002	15065003	15065004
	CHEMICAL FREE IRON FILTER FOR LOW PH AND/OR HIGH MANGANESE			
	NVO489DFAIOM-100	NVO489DFAIOM-150	NVO489DFAIOM-200	NVO489DFAIOM-300
	15065006	15065007	15065008	15065009
	HYDROGEN SULFIDE REDUCTION FILTER			
	NVO489DFAIOC-100	NVO489DFAIOC-150	NVO489DFAIOC-200	NVO489DFAIOC-300
	15065016	15065017	15065018	15065019
	BIRM IRON FILTER			
NVO489DFAIOB-100	NVO489DFAIOB-150	NVO489DFAIOB-200	NVO489DFAIOB-300	
15065011	15065012	15065013	15065014	
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 USgpm	12.0 USgpm	14.0 USgpm
Backwash Flow Rate	4.0 US gpm	5.0 US gpm	7.0 US gpm	10.0 USgpm
Media (Cubic Feet)	1.0 ft ³	1.5 ft ³	2.0 ft ³	3.0 ft ³
Pressure Tank Size (Inches)	9 x 48	10 x 54	12 x 52	14 x 65
Shipping Weight	AIO: 130 lbs	AIO: 169 lbs	AIO: 212 lbs	AIO: 358 lbs
	AIOM: 127 lbs	AIOM: 166 lbs	AIOM: 190 lbs	AIOM: 358 lbs
	AIOC: 66 lbs	AIOC: 85 lbs	AIOC: 107 lbs	AIOC: 154 lbs
	AIOB: 75 lbs	AIOB: 98 lbs	AIOB: 124 lbs	AIOB: 180 lbs
Media Loaded	Yes	Yes	AIO/AIOM: No AIOC/AIOB: Yes	No
Maximum Iron	AIO, AIOM & AIOB: 0.0 - 10.0 ppm AIOC: 0.0 ppm			
Hydrogen Sulfide	AIO & AIOM: 0.0 - 1.0 ppm AIOC: 0.0 - 3.0 ppm AIOB: 0.0 ppm			
Manganese	AIO, AIOC & AIOB: 0.0 ppm AIOM: 0.0 - 1.0 ppm			
pH Range	AIO, AIOC & AIOB: 7.0 - 8.5 AIOM: 6.5 - 7.5			
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)			

DIMENSIONS

489AIO Filters	100	150	200	300
TANK/VALVE A x B (inches)	56 x 9	62 x 10	60 x 12	74 x 14



QUICK LINKS



Homeowner's Manual



Installation Guide



Maintenance Guide



Trouble Shooting Guide



Parts Breakdown



Programming Guide



Warranty Sheet

