

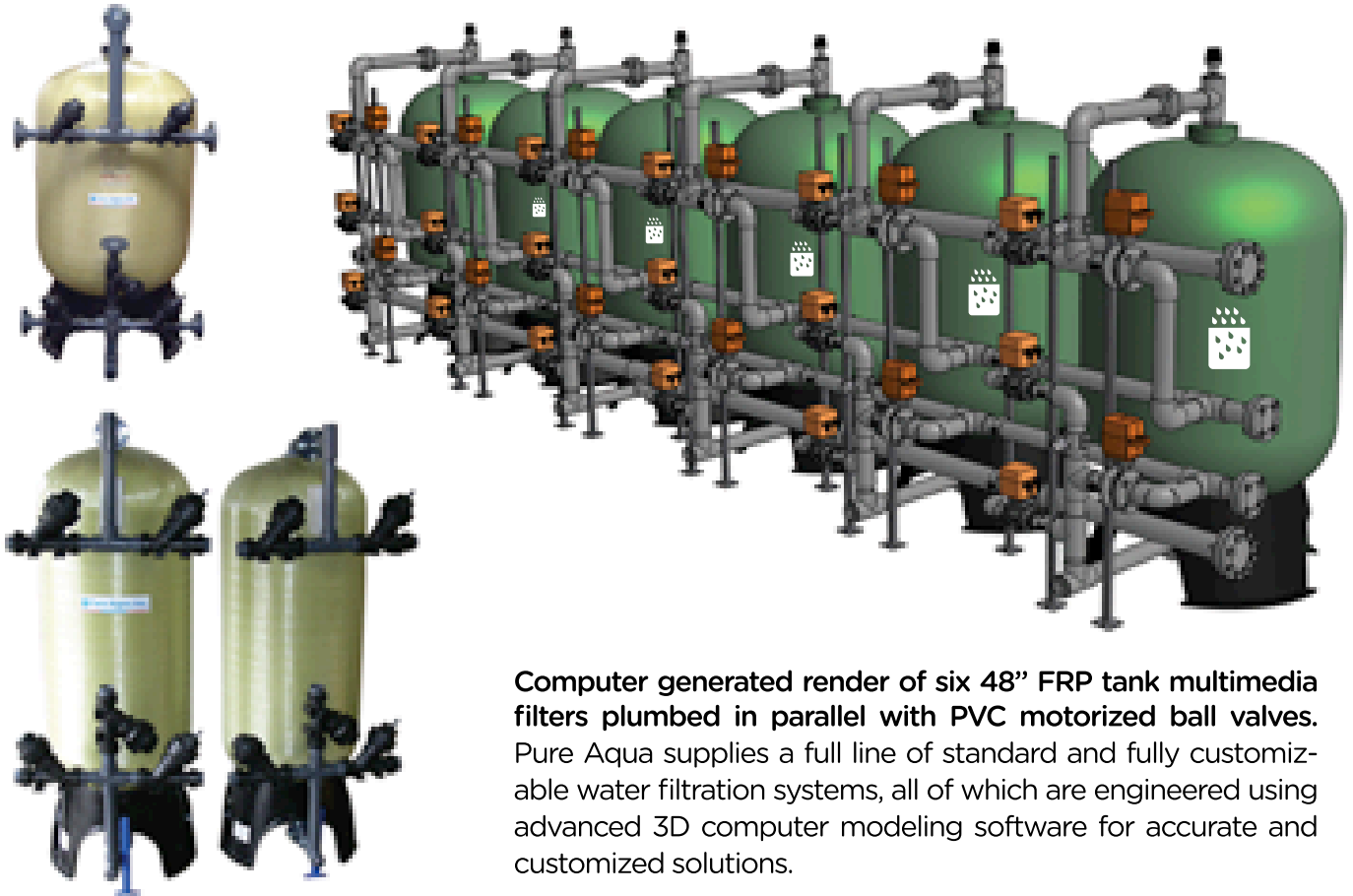
Industrial Media Filters

FRP Tanks: 21" to 86" Diameter

MF-600

SERIES

Pure Aqua's pressure filters clarify water by removing sediment, turbidity, iron, unpleasant tastes and odors, suspended particles, and unwanted color, all of which are commonly found in surface water. They can be used in a variety of services including: industrial, municipal, and institutional applications.



Computer generated render of six 48" FRP tank multimedia filters plumbed in parallel with PVC motorized ball valves. Pure Aqua supplies a full line of standard and fully customizable water filtration systems, all of which are engineered using advanced 3D computer modeling software for accurate and customized solutions.

Standard Features

- 1"-3" Noryl diaphragm valves or butterfly valves for 4" or larger
- Electro-mechanical stager for filters using diaphragm valves or PLC for butterfly valves
- 1/4" tubing between stager and valves
- 115V/1Ph/60Hz power supply
- FRP tank with 150 psi rating
- Top loading port
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports
- High quality media

Available Options

- Differential pressure initiation for backwash
- 240V/1Ph/50Hz power supply
- NEMA 4 or NEMA 4X enclosures
- Tanks according to ASME code
- Tanks with higher pressure rating
- 316 SS or galvanized iron face piping
- Inlet / Outlet 316 SS pressure gauges
- Inlet / Outlet sample valves
- Manual or automatic air vent valve
- Vacuum breaker
- Flanged piping connection
- Unistrut channel supports

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Electro-Mechanical Stager

The stager can use air or water to actuate the control valves. PLC control is optional.



Vacuum Breakers

Vacuum breakers protect the tank and face piping during operation.



Differential Pressure Gauge

The differential pressure gauge and switch are used to automatically initiate backwash.

Filter Media Types

Pure Aqua supplies a wide range of quality filter media that meet industry standards for efficient and effective filtration.



Sand

Graded in various ranges, Pure Aqua Sand can be used as filtration medium or underbedding depending on particle size and application.



Anthracite

Anthracite is recommended as a filter medium where additional silica in the water is not desirable and remove lighter weight turbidity.

Calcite

Calcite media is specially graded calcium carbonate compound for neutralizing acid with consistent dissolving rates for water treatment.

Activated Carbon

Activated carbon medium is used to remove taste, odor and chlorine and used in many drinking water applications.

Manganese Greensand

Manganese Greensand media is treated siliceous material for treating water containing iron, manganese and hydrogen sulfide.

ProSand

ProSand is based on a rare natural mineral and its unique properties allow it to radically alter the performance and cost of media filtration.

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Operation Specifications

-  Operating pressure: 2-6.8 bar (30-100 psi)
-  Operating temperature: 2-38°C (35-100°F)
-  Electrical supply: 115V/1Ph/60Hz
-  Filters can be supplied in 240V/1Ph/50Hz

Model #		Flow Rate								Tank Size D"xH"	Media Qty. Ft ³	Pipe Size		Approx. Weight Lbs
		Minimum		Average		Peak		Backwash				Serv.	Drain	
Automatic	Manual	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H					
Multi Layer Filters: Anthracite, Sand and Gravel (Turbidity Removal)														
MLF21-A-F	MLF21-M-F	24	5.5	36	8.2	48	10.9	36	8.2	21x65	8	1-1/2"	1-1/2"	1,315
MLF24-A-F	MLF24-M-F	31	7.1	47	10.7	63	14.3	47	10.7	24x72	12	1-1/2"	2"	2,015
MLF30-A-F	MLF30-M-F	49	11.2	74	16.7	98	22.3	74	16.7	30x72	18	2"	2"	2,970
MLF36-A-F	MLF36-M-F	71	16.1	106	24.1	141	32.1	106	24.1	36x72	24	3"	3"	4,980
MLF42-A-F	MLF42-M-F	96	21.9	144	32.8	192	43.7	144	32.8	42x72	32	3"	3"	6,300
MLF48-A-F	MLF48-M-F	126	28.5	188	42.8	251	57.1	188	42.8	48x72	40	3"	3"	6,800
MLF55-A-F	MLF55-M-F	165	37.5	247	56.2	330	75.0	247	56.2	55x86	50	4"	4"	9,770
MLF63-A-F	MLF63-M-F	216	49.2	325	73.8	433	98.3	325	73.8	63x86	60	4"	4"	10,900
MLF71-A-F	MLF71-M-F	275	62.5	412	93.7	550	125	412	93.7	71x89	71	4"	4"	14,150
MLF79-A-F	MLF79-M-F	340	77.3	510	116	680	155	510	116	79x93	83	4"	6"	15,000
MLF86-A-F	MLF86-M-F	403	91.6	605	137	806	183	605	137	86x100	96	6"	6"	16,150
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)														
AGF21-A-F	AGF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	890
AGF24-A-F	AGF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	12	1-1/2"	1-1/2"	1,310
AGF30-A-F	AGF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	18	2"	2"	1,930
AGF36-A-F	AGF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	3,050
AGF42-A-F	AGF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	2"	2"	3,850
AGF48-A-F	AGF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	4,900
AGF55-A-F	AGF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	6,000
AGF63-A-F	AGF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	4"	3"	7,000
AGF71-A-F	AGF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	8,775
AGF79-A-F	AGF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	4"	4"	9,775
AGF86-A-F	AGF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	10,775
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)														
ACF21-A-F	ACF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	810
ACF24-A-F	ACF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	12	1-1/2"	1-1/2"	1,210
ACF30-A-F	ACF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	18	2"	2"	2,200
ACF36-A-F	ACF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	2,695
ACF42-A-F	ACF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	2"	2"	3,190
ACF48-A-F	ACF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	4,015
ACF55-A-F	ACF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	4,840
ACF63-A-F	ACF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	4"	3"	5,240
ACF71-A-F	ACF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	5,860
ACF79-A-F	ACF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	4"	4"	6,850
ACF86-A-F	ACF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	7,860

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Model #		Flow Rate								Tank Size D"xH"	Media Qty. Ft ³	Pipe Size		Approx. Weight Lbs
		Minimum		Average		Peak		Backwash				Serv.	Drain	
Automatic	Manual	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H					
Birm Filters: (Fe, Mn, H₂S, Reduction)														
BRF21-A-F	BRF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	1,410
BRF24-A-F	BRF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	12	1-1/2"	1-1/2"	2,090
BRF30-A-F	BRF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	18	2"	2"	3,100
BRF36-A-F	BRF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	4,610
BRF42-A-F	BRF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	2"	2"	5,930
BRF48-A-F	BRF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	7,500
BRF55-A-F	BRF-55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	9,250
BRF63-A-F	BRF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	4"	3"	10,900
BRF71-A-F	BRF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	13,650
BRF79-A-F	BRF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	4"	4"	14,650
BRF86-A-F	BRF86-A-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	15,650
Calcite Filters: (pH Neutralization)														
CTF21-A-F	CTF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	1,410
CTF24-A-F	CTF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	12	1-1/2"	1-1/2"	2,090
CTF30-A-F	CTF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	18	2"	2"	3,100
CTF36-A-F	CTF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	4,610
CTF42-A-F	CTF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	2"	2"	5,930
CTF48-A-F	CTF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	7,500
CTF55-A-F	CTF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	9,250
CTF63-A-F	CTF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	4"	3"	10,900
CTF71-A-F	CTF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	13,650
CTF79-A-F	CTF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	4"	4"	14,650
CTF86-A-F	CTF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	15,650
Manganese Greensand Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H₂S Reduction)														
GSF21-A-F	GSF21-M-F	19	4.4	24	5.5	29	6.6	24	5.5	21x65	8	1-1/2"	1-1/2"	1,410
GSF24-A-F	GSF24-M-F	25	5.7	31	7.1	38	8.6	31	7.1	24x72	12	1-1/2"	1-1/2"	2,090
GSF30-A-F	GSF30-M-F	39	8.9	49	11.2	59	13.4	49	11.2	30x72	18	2"	2"	3,100
GSF36-A-F	GSF36-M-F	57	12.8	71	16.1	85	19.3	71	16.1	36x72	24	2"	2"	4,610
GSF42-A-F	GSF42-M-F	77	17.5	96	21.9	115	26.2	96	21.9	42x72	32	2"	2"	5,930
GSF48-A-F	GSF48-M-F	100	22.8	126	28.5	151	34.3	126	28.5	48x72	40	3"	3"	7,500
GSF55-A-F	GSF55-M-F	132	30.0	165	37.5	198	45.0	165	37.5	55x86	50	3"	3"	9,250
GSF63-A-F	GSF63-M-F	173	39.3	216	49.2	260	59.0	216	49.2	63x86	60	4"	3"	10,900
GSF71-A-F	GSF71-M-F	220	50.0	275	62.5	330	74.9	275	62.5	71x89	71	4"	4"	13,650
GSF79-A-F	GSF79-M-F	272	61.9	340	77.3	408	92.8	340	77.3	79x93	83	4"	4"	14,650
GSF86-A-F	GSF86-M-F	323	73.3	403	91.6	484	110	403	91.6	86x100	96	6"	6"	15,650

*All filters require periodic backwashing to dispose of the accumulated debris. This is accomplished by backwashing clean water through the unit and then disposing of the effluent. During this phase, the different sizes of media separate into layers, preparing the filter bed for service. Because backwashing generally occurs at higher flow rates than those seen in service, oftentimes a proper backwash flow rate is not possible because the systems are designed for required service flow rates. However, by utilizing smaller double or triple unit systems, the optimum backwash flow rate is lower; therefore, these systems operate at higher service flow rates.

 <h2>Pure Aqua, Inc.[®]</h2> <p>Water Treatment and Reverse Osmosis Systems sales@pureaqua.com Tel: +1-714-432-9996 www.pureaqua.com Fax: +1-714-432-9898 Designed and Manufactured in Southern California, USA</p>	  	<p>Authorized Dealer:</p>
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