

Industrial Media Filters

Stainless Steel Tanks: 24" to 84" Diameter

MF-1100

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.

Computer generated render of three 84" stainless steel tank multi media filters plumbed in parallel with 6" butterfly control 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
- 115V/1Ph/60Hz power supply
- Stainless steel tank with 100 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

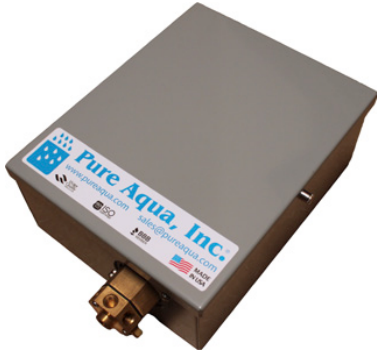
Available Options

- Differential pressure initiation for backwash
- Butterfly valves, air or electrically operated
- 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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The Electro-Mechanical Stagger can use air or water to actuate the control valves. PLC control is optional.



Vacuum breakers protect the tank and face piping during operation by preventing negative pressure in the tank.



The Differential Pressure Gauge and Switch are used to automatically initiate back-wash.

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 under-bedding depending on partial 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.



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. Its unique properties radically improve 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 #		Max Flow (GPM)								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)														
MLF24-A-SS	MLF24-M-SS	32	7.3	47	10.7	64	14.5	47	10.7	24x54	8	1-1/2"	1-1/2"	1,315
MLF30-A-SS	MLF30-M-SS	50	11.4	74	16.8	100	22.7	74	16.8	30x54	12	1-1/2"	2"	2,015
MLF36-A-SS	MLF36-M-SS	71	16.1	106	24.1	142	32.3	106	24.1	36x60	18	2"	2"	2,970
MLF42-A-SS	MLF42-M-SS	97	22	144	32.7	194	44.1	144	32.7	42x60	24	3"	3"	4,980
MLF48-A-SS	MLF48-M-SS	126	28.6	188	42.7	252	57.3	188	42.7	48x60	32	3"	3"	6,300
MLF54-A-SS	MLF54-M-SS	159	36.1	238	54.1	318	72.3	238	54.1	54x60	40	3"	4"	6,800
MLF60-A-SS	MLF60-M-SS	196	44.5	294	66.8	392	89.1	294	66.8	60x60	50	4"	4"	9,770
MLF66-A-SS	MLF66-M-SS	238	54.1	356	80.9	476	108.2	356	80.9	66x60	60	4"	4"	10,900
MLF72-A-SS	MLF72-M-SS	283	64.3	424	96.4	566	128.6	424	96.4	72x60	71	4"	4"	14,150
MLF78-A-SS	MLF78-M-SS	332	75.5	500	113.6	664	150.9	500	113.6	78x60	83	4"	6"	15,000
MLF84-A-SS	MLF84-M-SS	385	87.5	577	131.1	770	175	577	131.1	84x60	96	6"	6"	16,150
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)														
AGF24-A-SS	AGF24-M-SS	25	5.7	32	7.3	38	8.6	32	7.3	24x54	8	1-1/2"	1-1/2"	890
AGF30-A-SS	AGF30-M-SS	40	11.4	50	11.4	59	13.4	50	11.4	30x54	12	1-1/2"	1-1/2"	1,310
AGF36-A-SS	AGF36-M-SS	60	13.6	71	16.1	85	19.3	71	16.1	36x60	18	2"	2"	1,930
AGF42-A-SS	AGF42-M-SS	80	18.2	97	22	115	26.1	97	22	42x60	24	2"	2"	3,050
AGF48-A-SS	AGF48-M-SS	100	22.7	126	28.6	151	34.3	126	28.6	48x60	32	3"	3"	3,850
AGF54-A-SS	AGF54-M-SS	130	29.5	159	36.1	190	43.2	159	36.1	54x60	40	3"	3"	4,900
AGF60-A-SS	AGF60-M-SS	160	36.4	196	44.5	235	53.4	196	44.5	60x60	50	3"	3"	6,000
AGF66-A-SS	AGF66-M-SS	190	43.2	238	54.1	285	64.8	238	54.1	66x60	60	4"	4"	7,000
AGF72-A-SS	AGF72-M-SS	230	52.3	283	64.3	339	77	283	64.3	72x60	71	4"	4"	8,775
AGF78-A-SS	AGF78-M-SS	270	61.4	332	75.5	400	90.9	332	75.5	78x60	83	4"	4"	9,775
AGF84-A-SS	AGF84-M-SS	310	70.5	385	87.5	462	105	385	87.5	84x60	96	6"	6"	10,775
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)														
ACF24-A-SS	ACF24-M-SS	25	5.7	32	7.3	38	8.6	32	7.3	24x54	8	1-1/2"	1-1/2"	810
ACF30-A-SS	ACF30-M-SS	40	11.4	50	11.4	59	13.4	50	11.4	30x54	12	1-1/2"	1-1/2"	1,210
ACF36-A-SS	ACF36-M-SS	60	13.6	71	16.1	85	19.3	71	16.1	36x60	18	2"	2"	2,200
ACF42-A-SS	ACF42-M-SS	80	18.2	97	22	115	26.1	97	22	42x60	24	2"	2"	2,695
ACF48-A-SS	ACF48-M-SS	100	22.7	126	28.6	151	34.3	126	28.6	48x60	32	3"	3"	3,190
ACF54-A-SS	ACF54-M-SS	130	29.5	159	36.1	190	43.2	159	36.1	54x60	40	3"	3"	4,015
ACF60-A-SS	ACF60-M-SS	160	36.4	196	44.5	235	53.4	196	44.5	60x60	50	3"	3"	4,840
ACF66-A-SS	ACF66-M-SS	190	43.2	238	54.1	285	64.8	238	54.1	66x60	60	4"	4"	5,240
ACF72-A-SS	ACF72-M-SS	230	52.3	283	64.3	339	77	283	64.3	72x60	71	4"	4"	5,860
ACF78-A-SS	ACF78-M-SS	270	61.4	332	75.5	400	90.9	332	75.5	78x60	83	4"	4"	6,850
ACF84-A-SS	ACF84-M-SS	310	70.5	385	87.5	462	105	385	87.5	84x60	96	6"	6"	7,860

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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Model #		Max Flow (GPM)								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, H ₂ S, Reduction)														
BRF24-A-SS	BRF24-M-SS	25	5.7	32	7.3	38	8.6	32	7.3	24x54	8	1-1/2"	1-1/2"	1,410
BRF30-A-SS	BRF30-M-SS	40	11.4	50	11.4	59	13.4	50	11.4	30x54	12	1-1/2"	1-1/2"	2,090
BRF36-A-SS	BRF36-M-SS	60	13.6	71	16.1	85	19.3	71	16.1	36x60	18	2"	2"	3,100
BRF42-A-SS	BRF42-M-SS	80	18.2	97	22	115	26.1	97	22	42x60	24	2"	2"	4,610
BRF48-A-SS	BRF48-M-SS	100	22.7	126	28.6	151	34.3	126	28.6	48x60	32	3"	3"	5,930
BRF54-A-SS	BRF54-M-SS	130	29.5	159	36.1	190	43.2	159	36.1	54x60	40	3"	3"	7,500
BRF60-A-SS	BRF60-M-SS	160	36.4	196	44.5	235	53.4	196	44.5	60x60	50	3"	3"	9,250
BRF66-A-SS	BRF66-M-SS	190	43.2	238	54.1	285	64.8	238	54.1	66x60	60	4"	4"	10,900
BRF72-A-SS	BRF72-M-SS	230	52.3	283	64.3	339	77	283	64.3	72x60	71	4"	4"	13,650
BRF78-A-SS	BRF78-M-SS	270	61.4	332	75.5	400	90.9	332	75.5	78x60	83	4"	4"	14,650
BRF84-A-SS	BRF84-M-SS	310	70.5	385	87.5	462	105	385	87.5	84x60	96	6"	6"	15,650
Calcite Filters: (pH Neutralization)														
CTF24-A-SS	CTF24-M-SS	25	5.7	32	7.3	38	8.6	32	7.3	24x54	8	1-1/2"	1-1/2"	1,410
CTF30-A-SS	CTF30-M-SS	40	11.4	50	11.4	59	13.4	50	11.4	30x54	12	1-1/2"	1-1/2"	2,090
CTF36-A-SS	CTF36-M-SS	60	13.6	71	16.1	85	19.3	71	16.1	36x60	18	2"	2"	3,100
CTF42-A-SS	CTF42-M-SS	80	18.2	97	22	115	26.1	97	22	42x60	24	2"	2"	4,610
CTF48-A-SS	CTF48-M-SS	100	22.7	126	28.6	151	34.3	126	28.6	48x60	32	3"	3"	5,930
CTF54-A-SS	CTF54-M-SS	130	29.5	159	36.1	190	43.2	159	36.1	54x60	40	3"	3"	7,500
CTF60-A-SS	CTF60-M-SS	160	36.4	196	44.5	235	53.4	196	44.5	60x60	50	3"	3"	9,250
CTF66-A-SS	CTF66-M-SS	190	43.2	238	54.1	285	64.8	238	54.1	66x60	60	4"	4"	10,900
CTF72-A-SS	CTF72-M-SS	230	52.3	283	64.3	339	77	283	64.3	72x60	71	4"	4"	13,650
CTF78-A-SS	CTF78-M-SS	270	61.4	332	75.5	400	90.9	332	75.5	78x60	83	4"	4"	14,650
CTF84-A-SS	CTF84-M-SS	310	70.5	385	87.5	462	105	385	87.5	84x60	96	6"	6"	15,650
Manganese Greensand Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H ₂ S Reduction)														
GSF24-A-SS	GSF24-M-SS	25	5.7	32	7.3	38	8.6	32	7.3	24x54	8	1-1/2"	1-1/2"	1,410
GSF30-A-SS	GSF30-M-SS	40	11.4	50	11.4	59	13.4	50	11.4	30x54	12	1-1/2"	1-1/2"	2,090
GSF36-A-SS	GSF36-M-SS	60	13.6	71	16.1	85	19.3	71	16.1	36x60	18	2"	2"	3,100
GSF42-A-SS	GSF42-M-SS	80	18.2	97	22	115	26.1	97	22	42x60	24	2"	2"	4,610
GSF48-A-SS	GSF48-M-SS	100	22.7	126	28.6	151	34.3	126	28.6	48x60	32	3"	3"	5,930
GSF54-A-SS	GSF54-M-SS	130	29.5	159	36.1	190	43.2	159	36.1	54x60	40	3"	3"	7,500
GSF60-A-SS	GSF60-M-SS	160	36.4	196	44.5	235	53.4	196	44.5	60x60	50	3"	3"	9,250
GSF66-A-SS	GSF66-M-SS	190	43.2	238	54.1	285	64.8	238	54.1	66x60	60	4"	4"	10,900
GSF72-A-SS	GSF72-M-SS	230	52.3	283	64.3	339	77	283	64.3	72x60	71	4"	4"	13,650
GSF78-A-SS	GSF78-M-SS	270	61.4	332	75.5	400	90.9	332	75.5	78x60	83	4"	4"	14,650
GSF84-A-SS	GSF84-M-SS	310	70.5	385	87.5	462	105	385	87.5	84x60	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.

 <p>Pure Aqua, Inc. Water Treatment and Reverse Osmosis Systems sales@pureaqua.com Tel: +1-714-432-9996 www.pureaqua.com Fax: +1-714-432-9898</p>	<p>Authorized Dealer:</p>   
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