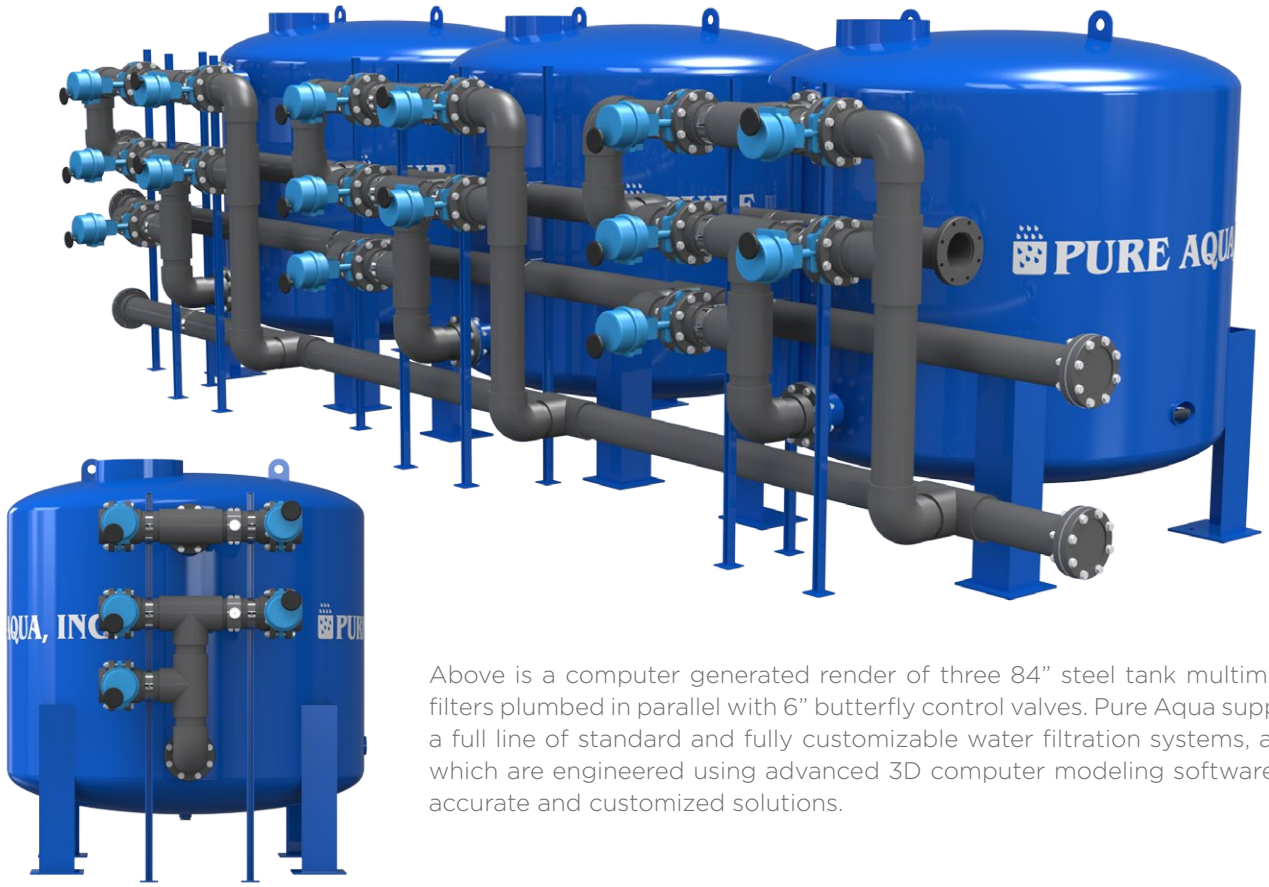
Industrial Media Filters

Steel Tanks: 20” to 84” Diameter

MF-1000
SERIES

Pure Aqua’s media filters clarify water by removing sediment, turbidity, iron, unpleasant tastes, 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.



MLF84-A

Above is a computer generated render of three 84” steel tank multimedia 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

- 1.5”-3” Noryl diaphragm valves or butterfly valves for 4” or larger
- Digital stager for filters using diaphragm valves or PLC for butterfly valves
- 1/4” tubing between stager and valves
- 115V/1ph/60Hz power requirement
- Steel tank with 100 psi rating
- Epoxy coated interior and primed exterior
- Top loading port or manway
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports

Available Options

- 240V/1ph/50Hz power requirement
- Differential pressure initiation for backwash
- NEMA 4 or NEMA 4X enclosures
- ASME coded tanks
- 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 valves
- Vacuum breakers
- Flanged piping connection
- Unistrut channel supports

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Digital Stager

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

Vacuum Breaker

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

DP Switch

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.

Coarse Gravel | Fine Gravel | Coconut Carbon Media | Silica Sand | Anthracite Media

Sand

Graded in various ranges, Pure Aqua’s sand can be used as filtration media or underbedding depending on particle size and application.

Anthracite

Anthracite is recommended as a filter media where additional silica in the water is not desirable and removes 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 media 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)
- Electrical requirement: 115V/1ph/60Hz
- Operating temperature: 2-38°C (35-100°F)
- 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						
Automatic	Manual	GPM	M^3/H	GPM	M^3/H	GPM	M^3/H	GPM	M^3/H			Serv.	Drain	
Multi Layers Filters: Anthracite, Sand and Gravel (Turbidity Removal)														
MLF20-A	MLF20-M	22	5.0	33	7.4	44	9.9	33	7.4	20X54	6	1-1/2”	1-1/2”	823
MLF24-A	MLF24-M	31	7.1	47	10.7	63	14.3	47	10.7	24x54	8	1-1/2”	1-1/2”	1,138
MLF30-A	MLF30-M	49	11.2	74	16.7	98	22.3	74	16.7	30x54	12	2”	2”	1,705
MLF36-A	MLF36-M	71	16.1	106	24.1	141	32.1	106	24.1	36x60	18	2”	2”	2,559
MLF42-A	MLF42-M	96	21.9	144	32.8	192	43.7	144	32.8	42x60	24	3”	3”	3,616
MLF48-A	MLF48-M	126	28.6	189	42.9	251	57.1	189	42.9	48x60	32	3”	3”	4,723
MLF54-A	MLF54-M	159	36.1	239	54.2	318	72.3	239	54.2	54x60	40	3”	4”	6,310
MLF60-A	MLF60-M	196	44.6	294	66.9	393	89.2	294	66.9	60x60	50	4”	4”	8,200
MLF66-A	MLF66-M	238	54.0	356	81.0	475	108.0	356	81.0	66x60	60	4”	4”	9,715
MLF72-A	MLF72-M	283	64.3	424	96.4	565	128.5	424	96.4	72x60	71	4”	4”	12,170
MLF78-A	MLF78-M	332	75.4	498	113.1	664	150.8	498	113.1	78x60	83	6”	6”	13,750
MLF84-A	MLF84-M	385	87.5	577	131.2	770	174.9	577	131.2	84x60	96	6”	6”	16,645
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)														
AGF20-A	AGF20-M	11	2.5	15	3.5	22	5.0	22	5.0	20X54	6	1-1/2”	1-1/2”	500
AGF24-A	AGF24-M	16	3.6	22	5.0	31	7.1	31	7.1	24x54	8	1-1/2”	1-1/2”	688
AGF30-A	AGF30-M	25	5.6	34	7.8	49	11.2	49	11.2	30x54	12	2”	2”	1,000
AGF36-A	AGF36-M	35	8.0	49	11.2	71	16.1	71	16.1	36x60	18	2”	2”	1,531
AGF42-A	AGF42-M	48	10.9	67	15.3	96	21.9	96	21.9	42x60	24	3”	3”	2,206
AGF48-A	AGF48-M	63	14.3	88	20.0	126	28.6	126	28.6	48x60	32	3”	3”	2,863
AGF54-A	AGF54-M	80	18.1	111	25.3	159	36.1	159	36.1	54x60	40	3”	3”	4,000
AGF60-A	AGF60-M	98	22.3	137	31.2	196	44.6	196	44.6	60x60	50	3”	3”	5,313
AGF66-A	AGF66-M	119	27.0	166	37.8	238	54.0	238	54.0	66x60	60	4”	4”	6,250
AGF72-A	AGF72-M	141	32.1	198	45.0	283	64.3	283	64.3	72x60	71	4”	4”	8,094
AGF78-A	AGF78-M	166	37.7	232	52.8	332	75.4	332	75.4	78x60	83	6”	6”	8,969
AGF84-A	AGF84-M	192	43.7	269	61.2	385	87.5	385	87.5	84x60	96	6”	6”	11,125
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)														
ACF20-A	ACF20-M	11	2.5	22	5.0	26	5.9	26	5.9	20X54	6	1-1/2”	1-1/2”	519
ACF24-A	ACF24-M	16	3.6	31	7.1	38	8.6	38	8.6	24x54	8	1-1/2”	1-1/2”	713
ACF30-A	ACF30-M	25	5.6	49	11.2	59	13.4	59	13.4	30x54	12	2”	2”	1,038
ACF36-A	ACF36-M	35	8.0	71	16.1	85	19.3	85	19.3	36x60	18	2”	2”	1,588
ACF42-A	ACF42-M	48	10.9	96	21.9	115	26.2	115	26.2	42x60	24	3”	3”	2,281
ACF48-A	ACF48-M	63	14.3	126	28.6	151	34.3	151	34.3	48x60	32	3”	3”	2,963
ACF54-A	ACF54-M	80	18.1	159	36.1	191	43.4	191	43.4	54x60	40	3”	3”	4,125
ACF60-A	ACF60-M	98	22.3	196	44.6	236	53.5	236	53.5	60x60	50	3”	3”	5,469
ACF66-A	ACF66-M	119	27.0	238	54.0	285	64.8	285	64.8	66x60	60	4”	4”	6,438
ACF72-A	ACF72-M	141	32.1	283	64.3	339	77.1	339	77.1	72x60	71	4”	4”	8,316
ACF78-A	ACF78-M	166	37.7	332	75.4	398	90.5	398	90.5	78x60	83	6”	6”	9,228
ACF84-A	ACF84-M	192	43.7	385	87.5	462	104.9	462	104.9	84x60	96	6”	6”	11,425

Pure Aqua also supplies: Custom Engineered Solutions, Reverse Osmosis Systems, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

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Model #		Flow Rate								Tank Size D”xH”	Media Qty (ft^3)	Pipe Size		Approx Weight (lbs)
		Minimum		Average		Peak		Backwash						
Automatic	Manual	GPM	M^3/H	GPM	M^3/H	GPM	M^3/H	GPM	M^3/H			Serv.	Drain	
Birm Filters: (Fe, Mn, H_2S Reduction)														
BRF20-A	BRF20-M	11	2.5	22	5.0	26	5.9	26	5.9	20X54	6	1-1/2”	1-1/2”	643
BRF24-A	BRF24-M	16	3.6	31	7.1	38	8.6	38	8.6	24x54	8	1-1/2”	1-1/2”	878
BRF30-A	BRF30-M	25	5.6	49	11.2	59	13.4	59	13.4	30x54	12	2”	2”	1,285
BRF36-A	BRF36-M	35	8.0	71	16.1	85	19.3	85	19.3	36x60	18	2”	2”	1,959
BRF42-A	BRF42-M	48	10.9	96	21.9	115	26.2	115	26.2	42x60	24	3”	3”	2,776
BRF48-A	BRF48-M	63	14.3	126	28.6	151	34.3	151	34.3	48x60	32	3”	3”	3,623
BRF54-A	BRF54-M	80	18.1	159	36.1	191	43.4	191	43.4	54x60	40	3”	3”	4,950
BRF60-A	BRF60-M	98	22.3	196	44.6	236	53.5	236	53.5	60x60	50	3”	3”	6,500
BRF66-A	BRF66-M	119	27.0	238	54.0	285	64.8	285	64.8	66x60	60	4”	4”	7,675
BRF72-A	BRF72-M	141	32.1	283	64.3	339	77.1	339	77.1	72x60	71	4”	4”	9,780
BRF78-A	BRF78-M	166	37.7	332	75.4	398	90.5	398	90.5	78x60	83	6”	6”	10,940
BRF84-A	BRF84-M	192	43.7	385	87.5	462	104.9	462	104.9	84x60	96	6”	6”	13,405
Calcite Filters: (pH Neutralization)														
CTF20-A	CTF20-M	11	2.5	22	5.0	26	5.9	26	5.9	20X54	6	1-1/2”	1-1/2”	688
CTF24-A	CTF24-M	16	3.6	31	7.1	38	8.6	38	8.6	24x54	8	1-1/2”	1-1/2”	938
CTF30-A	CTF30-M	25	5.6	49	11.2	59	13.4	59	13.4	30x54	12	2”	2”	1,375
CTF36-A	CTF36-M	35	8.0	71	16.1	85	19.3	85	19.3	36x60	18	2”	2”	2,094
CTF42-A	CTF42-M	48	10.9	96	21.9	115	26.2	115	26.2	42x60	24	3”	3”	2,956
CTF48-A	CTF48-M	63	14.3	126	28.6	151	34.3	151	34.3	48x60	32	3”	3”	3,863
CTF54-A	CTF54-M	80	18.1	159	36.1	191	43.4	191	43.4	54x60	40	3”	3”	5,250
CTF60-A	CTF60-M	98	22.3	196	44.6	236	53.5	236	53.5	60x60	50	3”	3”	6,875
CTF66-A	CTF66-M	119	27.0	238	54.0	285	64.8	285	64.8	66x60	60	4”	4”	8,125
CTF72-A	CTF72-M	141	32.1	283	64.3	339	77.1	339	77.1	72x60	71	4”	4”	10,313
CTF78-A	CTF78-M	166	37.7	332	75.4	398	90.5	398	90.5	78x60	83	6”	6”	11,563
CTF84-A	CTF84-M	192	43.7	385	87.5	462	104.9	462	104.9	84x60	96	6”	6”	14,125
Manganese Greensand Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H_2S Reduction)														
GSF20-A	GSF20-M	11	2.5	22	5.0	26	5.9	26	5.9	20X54	6	1-1/2”	1-1/2”	980
GSF24-A	GSF24-M	16	3.6	31	7.1	38	8.6	38	8.6	24x54	8	1-1/2”	1-1/2”	1,328
GSF30-A	GSF30-M	25	5.6	49	11.2	59	13.4	59	13.4	30x54	12	2”	2”	1,960
GSF36-A	GSF36-M	35	8.0	71	16.1	85	19.3	85	19.3	36x60	18	2”	2”	2,971
GSF42-A	GSF42-M	48	10.9	96	21.9	115	26.2	115	26.2	42x60	24	3”	3”	4,126
GSF48-A	GSF48-M	63	14.3	126	28.6	151	34.3	151	34.3	48x60	32	3”	3”	5,423
GSF54-A	GSF54-M	80	18.1	159	36.1	191	43.4	191	43.4	54x60	40	3”	3”	7,200
GSF60-A	GSF60-M	98	22.3	196	44.6	236	53.5	236	53.5	60x60	50	3”	3”	9,313
GSF66-A	GSF66-M	119	27.0	238	54.0	285	64.8	285	64.8	66x60	60	4”	4”	11,050
GSF72-A	GSF72-M	141	32.1	283	64.3	339	77.1	339	77.1	72x60	71	4”	4”	13,774
GSF78-A	GSF78-M	166	37.7	332	75.4	398	90.5	398	90.5	78x60	83	6”	6”	15,609
GSF84-A	GSF84-M	192	43.7	385	87.5	462	104.9	462	104.9	84x60	96	6”	6”	18,805

*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.

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