

Industrial Media Filters

Stainless Steel Tanks: 20" to 84" Diameter

**MF-1100
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.

The Pure Aqua MF-1100 Series automatic backwashing media filter system is designed to provide the highest quality in water filtration equipment while covering a wide variety of commercial and industrial applications including turbidity reduction, iron & manganese removal, and chlorine removal. A broad range of filter media and component options are offered to fit your exact specifications.



Automatic MLF72-A-SS with
Butterfly Valves and PLC



Automatic MLF72-A-SS with Optional
SS Face Piping and Valves



Automatic MLF24-A-SS with
Diaphragm Valves and Stager

Standard Features

- 1.5"-2" Noryl diaphragm valves or butterfly valves for 3" or larger
- Digital stager for filters using diaphragm valves or PLC for butterfly valves
- 304 stainless steel tanks with 100 psi rating
- Top loading port or manway
- Schedule 80 PVC face piping
- PP/PVC sch 80 internal piping and distributor
- Vent and drain ports
- High quality media

Operation Specifications

- Operating pressure: 2-6.8 bar (30-100 psi)
- Electrical: 120VAC, 1-Phase, 60Hz, 5 Amp

Available Options

- Differential pressure initiation for backwash
- Butterfly valves, air or electrically operated
- 316 stainless steel tanks
- 240V/1ph/50Hz power requirement
- 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
- Stainless steel internal piping and distributor
- Flanged piping connection
- Unistrut channel supports

- Operating temperature: 41-122°F (5-50°C)
- Filters can be supplied in 240V/1ph/50Hz

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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.



Gravel

Anthracite

Sand

Calcite

Coconut Carbon

Turbidex

Greensand Plus

Sand

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

Calcite

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

Greensand Plus

GreensandPlus™ is a black filter media used to remove soluble iron, manganese, hydrogen sulfide, arsenic, and radium from groundwater supplies.

Anthracite

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

Activated Carbon

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

Turbidex

Turbidex is based on a rare natural mineral. Its unique properties radically improve the performance and cost of media filtration.

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MF-1100 SERIES

Model #		Flow Rate						Tank Size D"xH"	Media Qty (ft ³)	Pipe Size		Approx. Weight (lbs)
		Average		Peak		Backwash				Serv.	Drain	
Automatic	Manual	GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H					
Multi Layers Filters: Anthracite, Sand and Gravel (Turbidity Removal)												
MLF20-A-SS	MLF20-M-SS	22	5.0	44	9.9	33	7.4	20X54	6	1-1/2"	1-1/2"	823
MLF24-A-SS	MLF24-M-SS	31	7.1	63	14.3	47	10.7	24x54	8.5	1-1/2"	1-1/2"	1,200
MLF30-A-SS	MLF30-M-SS	49	11.2	98	22.3	74	16.7	30x54	13	2"	2"	1,800
MLF36-A-SS	MLF36-M-SS	71	16.1	141	32.1	106	24.1	36x60	19	2"	2"	2,684
MLF42-A-SS	MLF42-M-SS	96	21.9	192	43.7	144	32.8	42x60	26	3"	3"	3,806
MLF48-A-SS	MLF48-M-SS	126	28.6	251	57.1	189	42.9	48x60	34	3"	3"	4,913
MLF54-A-SS	MLF54-M-SS	159	36.1	318	72.3	239	54.2	54x60	43	4"	4"	6,565
MLF60-A-SS	MLF60-M-SS	196	44.6	393	89.2	294	66.9	60x60	53	4"	4"	8,455
MLF66-A-SS	MLF66-M-SS	238	54.0	475	108.0	356	81.0	66x60	64	4"	4"	10,095
MLF72-A-SS	MLF72-M-SS	283	64.3	565	128.5	424	96.4	72x60	76	4"	4"	12,615
MLF78-A-SS	MLF78-M-SS	332	75.4	664	150.8	498	113.1	78x60	89	6"	6"	14,320
MLF84-A-SS	MLF84-M-SS	385	87.5	770	174.9	577	131.2	84x60	103	6"	6"	17,280
Turbidex Filters: (Turbidity Removal)												
TXF20-A-SS	TXF20-M-SS	22	5.0	44	9.9	33	7.4	20X54	6	1-1/2"	1-1/2"	688
TXF24-A-SS	TXF24-M-SS	31	7.1	63	14.3	47	10.7	24x54	8.5	1-1/2"	1-1/2"	969
TXF30-A-SS	TXF30-M-SS	49	11.2	98	22.3	74	16.7	30x54	13	2"	2"	1,438
TXF36-A-SS	TXF36-M-SS	71	16.1	141	32.1	106	24.1	36x60	19	2"	2"	2,156
TXF42-A-SS	TXF42-M-SS	96	21.9	192	43.7	144	32.8	42x60	26	3"	3"	3,081
TXF48-A-SS	TXF48-M-SS	126	28.6	251	57.1	189	42.9	48x60	34	3"	3"	3,988
TXF54-A-SS	TXF54-M-SS	159	36.1	318	72.3	239	54.2	54x60	43	4"	4"	5,438
TXF60-A-SS	TXF60-M-SS	196	44.6	393	89.2	294	66.9	60x60	53	4"	4"	7,063
TXF66-A-SS	TXF66-M-SS	238	54.0	475	108.0	356	81.0	66x60	64	4"	4"	8,375
TXF72-A-SS	TXF72-M-SS	283	64.3	565	128.5	424	96.4	72x60	76	4"	4"	10,625
TXF78-A-SS	TXF78-M-SS	332	75.4	664	150.8	498	113.1	78x60	89	6"	6"	11,938
TXF84-A-SS	TXF84-M-SS	385	87.5	770	174.9	577	131.2	84x60	103	6"	6"	14,563
AG Filters: Non Hydrous Silicon Dioxide (Turbidity Removal)												
AGF20-A-SS	AGF20-M-SS	11	2.5	22	5.0	22	5.0	20X54	6	1-1/2"	1-1/2"	500
AGF24-A-SS	AGF24-M-SS	16	3.6	31	7.1	31	7.1	24x54	8.5	1-1/2"	1-1/2"	703
AGF30-A-SS	AGF30-M-SS	25	5.6	49	11.2	49	11.2	30x54	13	2"	2"	1,031
AGF36-A-SS	AGF36-M-SS	35	8.0	71	16.1	71	16.1	36x60	19	2"	2"	1,563
AGF42-A-SS	AGF42-M-SS	48	10.9	96	21.9	96	21.9	42x60	26	3"	3"	2,269
AGF48-A-SS	AGF48-M-SS	63	14.3	126	28.6	126	28.6	48x60	34	3"	3"	2,925
AGF54-A-SS	AGF54-M-SS	80	18.1	159	36.1	159	36.1	54x60	43	4"	4"	4,094
AGF60-A-SS	AGF60-M-SS	98	22.3	196	44.6	196	44.6	60x60	53	4"	4"	5,406
AGF66-A-SS	AGF66-M-SS	119	27.0	238	54.0	238	54.0	66x60	64	4"	4"	6,375
AGF72-A-SS	AGF72-M-SS	141	32.1	283	64.3	283	64.3	72x60	76	4"	4"	8,250
AGF78-A-SS	AGF78-M-SS	166	37.7	332	75.4	332	75.4	78x60	89	6"	6"	9,156
AGF84-A-SS	AGF84-M-SS	192	43.7	385	87.5	385	87.5	84x60	103	6"	6"	11,344
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, Odor and Color Removal)												
ACF20-A-SS	ACF20-M-SS	11	2.5	26	5.9	26	5.9	20X54	6	1-1/2"	1-1/2"	519
ACF24-A-SS	ACF24-M-SS	16	3.6	38	8.6	38	8.6	24x54	8.5	1-1/2"	1-1/2"	730
ACF30-A-SS	ACF30-M-SS	25	5.6	59	13.4	59	13.4	30x54	13	2"	2"	1,072
ACF36-A-SS	ACF36-M-SS	35	8.0	85	19.3	85	19.3	36x60	19	2"	2"	1,622
ACF42-A-SS	ACF42-M-SS	48	10.9	115	26.2	115	26.2	42x60	26	3"	3"	2,350
ACF48-A-SS	ACF48-M-SS	63	14.3	151	34.3	151	34.3	48x60	34	3"	3"	3,031
ACF54-A-SS	ACF54-M-SS	80	18.1	191	43.4	191	43.4	54x60	43	4"	4"	4,228
ACF60-A-SS	ACF60-M-SS	98	22.3	236	53.5	236	53.5	60x60	53	4"	4"	5,572
ACF66-A-SS	ACF66-M-SS	119	27.0	285	64.8	285	64.8	66x60	64	4"	4"	6,575
ACF72-A-SS	ACF72-M-SS	141	32.1	339	77.1	339	77.1	72x60	76	4"	4"	8,488
ACF78-A-SS	ACF78-M-SS	166	37.7	398	90.5	398	90.5	78x60	89	6"	6"	9,434
ACF84-A-SS	ACF84-M-SS	192	43.7	462	104.9	462	104.9	84x60	103	6"	6"	11,666

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Model #		Flow Rate						Tank Size D"xH"	Media Qty (ft ³)	Pipe Size		Approx. Weight (lbs)
Automatic	Manual	Average		Peak		Backwash				Serv.	Drain	
		GPM	M ³ /H	GPM	M ³ /H	GPM	M ³ /H					
Greensand PLUS Filters: Enriched Quality with High Catalytic Capacity (Fe, Mn and H₂S Reduction)												
GSF20-A-SS	GSF20-M-SS	11	2.5	26	5.9	26	5.9	20X54	6	1-1/2"	1-1/2"	1,648
GSF24-A-SS	GSF24-M-SS	16	3.6	38	8.6	38	8.6	24x54	8.5	1-1/2"	1-1/2"	2,329
GSF30-A-SS	GSF30-M-SS	25	5.6	59	13.4	59	13.4	30x54	13	2"	2"	3,518
GSF36-A-SS	GSF36-M-SS	35	8.0	85	19.3	85	19.3	36x60	19	2"	2"	5,196
GSF42-A-SS	GSF42-M-SS	48	10.9	115	26.2	115	26.2	42x60	26	3"	3"	7,241
GSF48-A-SS	GSF48-M-SS	63	14.3	151	34.3	151	34.3	48x60	34	3"	3"	9,428
GSF54-A-SS	GSF54-M-SS	80	18.1	191	43.4	191	43.4	54x60	43	4"	4"	12,318
GSF60-A-SS	GSF60-M-SS	98	22.3	236	53.5	236	53.5	60x60	53	4"	4"	15,543
GSF66-A-SS	GSF66-M-SS	119	27.0	285	64.8	285	64.8	66x60	64	4"	4"	18,615
GSF72-A-SS	GSF72-M-SS	141	32.1	339	77.1	339	77.1	72x60	76	4"	4"	22,785
GSF78-A-SS	GSF78-M-SS	166	37.7	398	90.5	398	90.5	78x60	89	6"	6"	26,178
GSF84-A-SS	GSF84-M-SS	192	43.7	462	104.9	462	104.9	84x60	103	6"	6"	31,043
Birm Filters: Insoluble Catalyst (Fe and Mn Reduction)												
BRF20-A-SS	BRF20-M-SS	11	2.5	26	5.9	26	5.9	20X54	6	1-1/2"	1-1/2"	643
BRF24-A-SS	BRF24-M-SS	16	3.6	38	8.6	38	8.6	24x54	8.5	1-1/2"	1-1/2"	905
BRF30-A-SS	BRF30-M-SS	25	5.6	59	13.4	59	13.4	30x54	13	2"	2"	1,340
BRF36-A-SS	BRF36-M-SS	35	8.0	85	19.3	85	19.3	36x60	19	2"	2"	2,014
BRF42-A-SS	BRF42-M-SS	48	10.9	115	26.2	115	26.2	42x60	26	3"	3"	2,886
BRF48-A-SS	BRF48-M-SS	63	14.3	151	34.3	151	34.3	48x60	34	3"	3"	3,733
BRF54-A-SS	BRF54-M-SS	80	18.1	191	43.4	191	43.4	54x60	43	4"	4"	5,115
BRF60-A-SS	BRF60-M-SS	98	22.3	236	53.5	236	53.5	60x60	53	4"	4"	6,665
BRF66-A-SS	BRF66-M-SS	119	27.0	285	64.8	285	64.8	66x60	64	4"	4"	7,895
BRF72-A-SS	BRF72-M-SS	141	32.1	339	77.1	339	77.1	72x60	76	4"	4"	10,055
BRF78-A-SS	BRF78-M-SS	166	37.7	398	90.5	398	90.5	78x60	89	6"	6"	11,270
BRF84-A-SS	BRF84-M-SS	192	43.7	462	104.9	462	104.9	84x60	103	6"	6"	13,790
Calcite Filters: (pH Neutralization)												
CTF20-A-SS	CTF20-M-SS	11	2.5	26	5.9	26	5.9	20X54	6	1-1/2"	1-1/2"	1,063
CTF24-A-SS	CTF24-M-SS	16	3.6	38	8.6	38	8.6	24x54	8.5	1-1/2"	1-1/2"	1,500
CTF30-A-SS	CTF30-M-SS	25	5.6	59	13.4	59	13.4	30x54	13	2"	2"	2,250
CTF36-A-SS	CTF36-M-SS	35	8.0	85	19.3	85	19.3	36x60	19	2"	2"	3,344
CTF42-A-SS	CTF42-M-SS	48	10.9	115	26.2	115	26.2	42x60	26	3"	3"	4,706
CTF48-A-SS	CTF48-M-SS	63	14.3	151	34.3	151	34.3	48x60	34	3"	3"	6,113
CTF54-A-SS	CTF54-M-SS	80	18.1	191	43.4	191	43.4	54x60	43	4"	4"	8,125
CTF60-A-SS	CTF60-M-SS	98	22.3	236	53.5	236	53.5	60x60	53	4"	4"	10,375
CTF66-A-SS	CTF66-M-SS	119	27.0	285	64.8	285	64.8	66x60	64	4"	4"	12,375
CTF72-A-SS	CTF72-M-SS	141	32.1	339	77.1	339	77.1	72x60	76	4"	4"	15,375
CTF78-A-SS	CTF78-M-SS	166	37.7	398	90.5	398	90.5	78x60	89	6"	6"	17,500
CTF84-A-SS	CTF84-M-SS	192	43.7	462	104.9	462	104.9	84x60	103	6"	6"	21,000

*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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AWWA MEMBER



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