

Commercial Media Filters

FRP Tanks: 7" to 42" Diameter

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 service conditions including: industrial, municipal, and institutional applications.

MF-400

SERIES



Filter Media Types

- Sand is the most common filter media. Generally fine mesh sand is coupled with a coarse grain support bed to remove suspended solids and turbidity.
- Anthracite is used in applications where silica pick-up from sand media is undesirable.
- Gravel has a highly spherical shape that promotes good flow and even distribution in support beds.
- Filter AG is non-hydrous silicon dioxide with outstanding advantages for reduction of suspended matter.
- Activated Carbon is recommended for the removal of unpleasant tastes, odors, dechlorination, and organic contaminant absorption.
- Manganese Green Sand is used to reduce iron, manganese and hydrogen sulfide through oxidation and filtration.
- Multimedia is required when maximum quality water is required and unwanted sediment is too small to be removed by standard media. It consists of multiple layers of increasing grain size to remove sediment as small as 10 microns.

Standard Features

- High performance FRP tank
- 115V/1Ph/60Hz power supply
- Automatic backwash valve
- Top mounted Fleck valve
- Operating pressure: 25-100 psi (1.3-6.8 bar)
- Operating temperature: 35-100°F (2-38°C)
- Time controller for scheduled backwash cycle
- Flow controller to limit backwash flow
- All internals are plastic materials
- High quality media

Available Options

- Duplex systems
- Tanks according to ASME code
- Stainless steel tanks
- Epoxy coated steel tanks
- 240V/1Ph/50Hz
- Vacuum breaker
- Auxiliary micro switch
- Inlet / Outlet sample valves
- Inlet / Outlet pressure gauges
- Filters using diaphragm valve
- Differential pressure switch and gauge

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Model #	Flow Rate								Tank Size D"xH"	Media Qty. Ft³	Pipe Size	Approx. Weight Lbs
	Minimum		Average		Peak		Backwash					
	GPM	M³/H	GPM	M³/H	GPM	M³/H	GPM	M³/H				
Multi Layer Filters: Anthracite, Sand and Gravel (Turbidity Removal)												
56F705MM	2.75	0.6	4	0.9	6	1.4	4	0.9	7x44	0.5	3/4"	75
56F8075MM	3.6	0.8	5.4	1.2	7.7	1.8	5.4	1.2	8x44	0.75	3/4"	95
56F910MM	4.4	1	6.6	1.5	8.8	2	6.6	1.5	9x48	1	3/4"	118
70F910MM	4.4	1	6.6	1.5	8.8	2	6.6	1.5	9x48	1	3/4"	118
56F1015MM	5.4	1.2	8.1	1.8	10.8	2.5	8.1	1.8	10x54	1.5	3/4"	156
70F1015MM	5.4	1.2	8.1	1.8	10.8	2.5	8.1	1.8	10x54	1.5	3/4"	156
50F1220MM	7.8	1.8	11.7	2.7	15.6	3.5	11.7	2.7	12x52	2	1"	204
70F1220MM	7.8	1.8	11.7	2.7	15.6	3.5	11.7	2.7	12x52	2	1"	204
50F1325MM	9.2	2.1	13.8	3.2	18.4	4.2	13.8	3.2	13x54	2.5	1"	267
70F1325MM	9.2	2.1	13.8	3.2	18.4	4.2	13.8	3.2	13x54	2.5	1"	267
70F1435MM	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14x65	3.5	1"	366
28F1435MM	10.7	2.4	16.1	3.6	21.4	4.9	16.1	3.6	14x65	3.5	1 1/2"	366
70F1645MM	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16x65	4.5	1"	462
28F1645MM	13.9	3.2	20.9	4.8	27.8	6.3	20.9	4.8	16x65	4.5	1 1/2"	462
70F1855MM	17.7	4	26.6	6	35.4	8	26.6	6	18x65	5.5	1 1/2"	577
28F1855MM	17.7	4	26.6	6	35.4	8	26.6	6	18x65	5.5	1 1/2"	577
70F2175MM	24.1	5.5	36.2	8.3	48.2	11	36.2	8.3	21x62	7.5	1 1/2"	761
28F2175MM	24.1	5.5	36.2	8.3	48.2	11	36.2	8.3	21x62	7.5	1 1/2"	761
70F24100MM	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24x72	10	1 1/2"	981
28F24100MM	31.4	7.1	47.1	10.7	62.8	14.3	47.1	10.7	24x72	10	1 1/2"	981
31F30150MM	49.1	11.2	73.7	16.8	98.2	22.3	73.7	16.8	30x72	15	2"	1,544
31F36210MM	70.7	16.1	106.1	24.2	141.4	32.1	106.1	24.2	36x72	21	2"	1,900
31F42280MM	100	22.7	124	28.2	150	34.1	124	28	42x72	28	2"	2,400
AG Filters: Non-Hydrous Silicon Dioxide (Turbidity Removal)												
56F705AG	2	0.45	2.75	0.6	4	0.9	3.2	0.7	7x44	0.5	3/4"	50
56F8075AG	2.75	0.6	3.65	0.8	5.45	1.2	4	0.9	8x44	0.75	3/4"	55
56F910AG	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	62
70F910AG	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	62
56F1015AG	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	81
70F1015AG	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	81
50F1220AG	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	106
70F1220AG	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	106
50F1325AG	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	125
70F1325AG	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	125
70F1435AG	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1"	156
28F1435AG	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1 1/2"	156
70F1645AG	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1	200
28F1645AG	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1 1/2"	200
70F1855AG	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	284
28F1855AG	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	284
70F2175AG	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	360
28F2175AG	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	360
70F24100AG	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	480
28F24100AG	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	480
31F30150AG	39.5	9	49.1	11.2	79	18	56.4	12.8	30x72	15	2"	770
31F36210AG	56.5	12.8	70.7	16.1	113	25.7	80.7	18.3	36x72	21	2"	1,050
31F42280AG	77	17.5	100	22.7	149	33.9	110	25	42x72	28	2"	1,500

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Model #	Flow Rate								Tank Size D”xH”	Media Qty. Ft³	Pipe Size	Approx. Weight Lbs
	Minimum		Average		Peak		Backwash					
	GPM	M³/H	GPM	M³/H	GPM	M³/H	GPM	M³/H				
Activated Carbon Filters: Granular Form with High Degree of Porosity (Taste, odor and Color Removal)												
56F705AC	2	0.45	2.75	0.6	4	0.9	3.2	0.7	7x44	0.5	3/4"	50
56F8075AC	2.75	0.6	3.65	0.8	5.45	1.2	4	0.9	8x44	0.75	3/4"	55
56F910AC	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	62
70F910AC	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	62
56F1015AC	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	81
70F1015AC	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	81
50F1220AC	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	106
70F1220AC	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	106
50F1325AC	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	125
70F1325AC	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	125
70F1435AC	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1"	156
28F1435AC	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1 1/2"	156
70F1645AC	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1	200
28F1645AC	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1 1/2"	200
70F1855AC	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	284
28F1855AC	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	284
70F2175AC	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	360
28F2175AC	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	360
70F24100AC	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	480
28F24100AC	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	480
31F30150AC	39.5	9	49.1	11.2	79	18	56.4	12.8	30x72	15	2"	770
31F36210AC	56.5	12.8	70.7	16.1	113	25.7	80.7	18.3	36x72	21	2"	1,050
31F42250AC	77	17.5	100	22.7	149	33.9	110	25	42x72	28	2"	1,500
Birm Filters: Insoluble Catalyst (Fe and Mn Reduction)												
56F705BM	2	0.45	2.75	0.6	4	0.9	3.2	0.7	7x44	0.5	3/4"	60
56F8075BM	2.75	0.6	3.65	0.8	5.45	1.2	4	0.9	8x44	0.75	3/4"	65
56F910BM	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	75
70F910BM	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4"	75
56F1015BM	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	98
70F1015BM	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4"	98
50F1220BM	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	130
70F1220BM	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1"	130
50F1325BM	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	150
70F1325BM	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1"	150
70F1435BM	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1"	164
28F1435BM	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1 1/2"	164
70F1645BM	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1	230
28F1645BM	11.2	2.6	13.9	3.2	22.4	5.1	16	3.6	16x65	4.5	1 1/2"	230
70F1855BM	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	315
28F1855BM	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2"	315
70F2175BM	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	448
28F2175BM	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2"	448
70F24100BM	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	594
28F24100BM	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2"	594
31F30150BM	39.5	9	49.1	11.2	79	18	56.4	12.8	30x72	15	2"	957
31F36210BM	56.5	12.8	70.7	16.1	113	25.7	80.7	18.3	36x72	21	2"	1,250
31F42280BM	77	17.5	100	22.7	149	33.9	110	25	42x72	28	2"	1,750

Commercial Media Filters

FRP Tanks: 7" to 42" Diameter

MF-400

SERIES

Model #	Flow Rate								Tank Size D”xH”	Media Qty. Ft³	Pipe Size	Approx. Weight Lbs
	Minimum		Average		Peak		Backwash					
	GPM	M³/H	GPM	M³/H	GPM	M³/H	GPM	M³/H				
Calcite Filters : pH Neutralization												
56F705CF	2	0.45	2.75	0.6	4	0.9	3.2	0.7	7x44	0.5	3/4”	60
56F8075CF	2.75	0.6	3.65	0.8	5.45	1.2	4	0.9	8x44	0.75	3/4”	65
50F910CF	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4”	75
70F910CF	3.5	0.8	4.4	1	7	1.6	5	1.1	9x48	1	3/4”	75
56F1015CF	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4”	98
70F1015CF	4.4	1	5.4	1.2	8.8	2	6.3	1.4	10x54	1.5	3/4”	98
50F1220CF	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1”	130
70F1220CF	6.2	1.4	7.8	1.8	12.4	2.8	8.9	2	12x52	2	1”	130
50F1325CF	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1”	150
70F1325CF	7.2	1.6	9.5	2.2	14.4	3.3	11	2.5	13x54	2.5	1”	150
70F1435CF	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1”	164
28F1435CF	8.5	1.9	10.7	2.4	17	3.9	12.1	2.8	14x65	3.5	1 1/2”	164
70F1645CF	11.2	2.5	13.9	3.1	22.4	5.1	16	3.6	16x65	4.5	1	230
28F1645CF	11.2	2.5	13.9	3.1	22.4	5.1	16	3.6	16x65	4.5	1 1/2”	230
70F1855CF	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2”	315
28F1855CF	14.1	3.2	17.7	4	28.2	6.4	20.1	4.6	18x65	5.5	1 1/2”	315
70F2175CF	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2”	448
28F2175CF	19.2	4.4	24.1	5.5	38.4	8.7	27.4	6.2	21x62	7.5	1 1/2”	448
70F24100CF	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2”	594
28F24100CF	25.1	5.7	31.4	7.1	50.2	11.4	35.9	8.1	24x72	10	1 1/2”	594
31F30150CF	39.5	9	49.1	11.2	79	17.18	56.4	12.8	30x72	15	2”	957
31F36210CF	56.5	12.8	70.7	16.1	113	25.7	80.7	18.3	36x72	21	2”	1,250
31F42280CF	77	17.5	100	22.7	149	33.9	110	25	42x72	28	2”	1,750

*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.

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

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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