

'MFS' Series Media Filter Systems



Overview

The Marlo 'MFS' 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 removal, and chlorine removal. A broad range of filter media and component options are offered to fit your exact specifications.

'MID' Multi-Media Filters

High efficiency, in-depth filter system using a layered media bed of anthracite, silica sand, and two grades of garnet for excellent filtration down to the order of 5 - 10 micron.

'MZA' Natural Zeolite Filters

An alternative, single media approach to traditional multi-media filters that achieves a finer filtration to 3-5 micron with longer service run times.

'MGA' Iron Removal Filters

Filter system capable of reducing iron, manganese, and hydrogen sulfide using manganese greensand filter media.

'ACA' Carbon Filters

Granular Activated Carbon (GAC) is designed for the reduction of chlorine, taste, odor, and dissolved organic material from municipal and industrial water supplies.

Materials of Construction

- Media Tanks: Carbon steel with Safety Blue exterior paint
- Tank Lining: NSF 61 rated epoxy coating
- Exterior Piping: Galvanized steel pipe & cast iron fittings
- Internal Distributors: Sch 80 PVC/ABS
- Control Valves: Painted cast iron body

Standard Equipment / Features

- Marlo MX-II electronic system controller
- Timer initiated backwash cycle
- Water activated diaphragm style control valves
- NEMA-4X electrical enclosures (FRP)
- Inlet/Outlet pressure gauges and sampling valves
- Factory Hydro-tested at 100 psig

Operating Parameters

- Inlet Pressure: 30-100 psig
- Electrical: 120 VAC, 1-Ph, 60Hz
- Temperature: 35-110 °F

Options Available

- Skid mounted, pre-piped, pre-wired systems
- Differential pressure switch backwash cycle
- Multiple tank parallel configurations
- ASME code stamped resin tanks
- Allen-Bradley PLC systems
- PVC or CPVC exterior face-piping (PVC standard for filters with 6" service)
- Copper or Stainless steel exterior face-piping
- Stainless steel internal distributor piping
- Seismic zone rated systems
- Butterfly control valves (air operated; standard for filters with 6" service)
- Air-scour backwash system
- Steam / hot water sanitizable carbon filters
- Alternate filter media (Birm, Filter-AG, Calcite)

Specifications

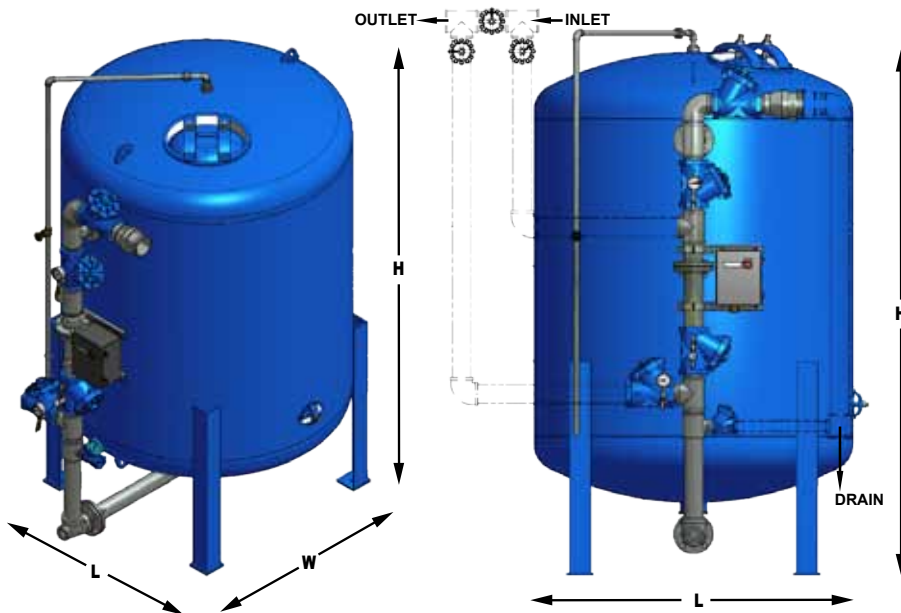
MZA - Natural Zeolite Filter Specifications									
CATALOG NUMBER	FLOW RATES			PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES) ②	SHIPPING WEIGHT (LBS) ③
	SERVICE		BACK WASH	SERVICE	DRAIN				
	CONT. GPM ①	PEAK GPM							
				CU. FT.	INCHES	SINGLE (LxWxH)	SINGLE		
MZA-20	20	45	35	1.5	1.5	5	20x54	21x30x72	650
MZA-24	30	60	45	1.5	2	8	24x54	25x34x73	900
MZA-30	50	100	75	2	2.5	12	30x54	31x40x76	1,400
MZA-36	70	140	105	2.5	3	18	36x60	37x48x84	2,100
MZA-42	100	200	145	2.5	4	24	42x60	43x54x88	2,700
MZA-48	125	250	190	3	4	32	48x60	49x62x95	4,000
MZA-54	160	320	240	3	4	40	54x60	55x70x97	4,900
MZA-60	200	400	300	3	6	50	60x60	61x76x103	6,200
MZA-66	240	480	360	4	6	60	66x60	67x82x105	8,600
MZA-72	285	570	425	4	6	70	72x60	73x88x107	11,700
MZA-84	385	770	580	6	6	95	84x60	85x104x102	15,600
MZA-96	500	1000	750	6	6	125	96x60	96x122x110	20,100
MZA-108	640	1280	950	8	8	160	108x60	109x134x112	25,000
MZA-120	800	1600	1175	8	8	200	120x60	121x146x115	29,500

MID - Multimedia Filter Specifications									
CATALOG NUMBER	FLOW RATES			PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES) ②	SHIPPING WEIGHT (LBS) ③
	SERVICE		BACK WASH	SERVICE	DRAIN				
	CONT. GPM ①	PEAK GPM							
				CU. FT.	INCHES	SINGLE (LxWxH)	SINGLE		
MID-20	20	45	35	1.5	1.5	5	20x54	21x30x72	1,200
MID-24	30	60	45	1.5	2	8	24x54	25x34x73	1,500
MID-30	50	100	75	2	2.5	12	30x54	31x40x76	2,200
MID-36	70	140	105	2.5	3	18	36x60	37x48x84	2,900
MID-42	100	200	145	2.5	4	24	42x60	43x54x88	3,700
MID-48	125	250	190	3	4	32	48x60	49x62x95	5,100
MID-54	160	320	240	3	4	40	54x60	55x70x97	6,300
MID-60	200	400	300	3	6	50	60x60	61x76x103	8,100
MID-66	240	480	360	4	6	60	66x60	67x82x105	11,000
MID-72	285	570	425	4	6	70	72x60	73x88x107	14,300
MID-84	385	770	580	6	6	95	84x60	85x104x102	19,600
MID-96	500	1000	750	6	6	125	96x60	96x122x110	25,200
MID-108	640	1280	950	8	8	160	108x60	109x134x112	31,500
MID-120	800	1600	1175	8	8	200	120x60	121x146x115	37,500

ACA - Activated Carbon Filter Specifications									
CATALOG NUMBER	FLOW RATES			PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES) ②	SHIPPING WEIGHT (LBS) ③
	SERVICE		BACK WASH	SERVICE	DRAIN				
	CONT. GPM ①	PEAK GPM							
				CU. FT.	INCHES	SINGLE (LxWxH)	SINGLE		
ACA-20	10	20	20	1	1.25	5	20x54	21x30x72	500
ACA-24	15	30	30	1.5	1.5	8	24x54	25x34x73	700
ACA-30	25	50	50	1.5	1.5	12	30x54	31x40x76	1,100
ACA-36	35	70	70	2	2	18	36x60	37x48x84	1,600
ACA-42	50	100	100	2	2.5	24	42x60	43x54x88	2,100
ACA-48	65	125	125	3	3	32	48x60	49x62x95	3,100
ACA-54	80	160	160	3	4	40	54x60	55x70x97	3,900
ACA-60	100	200	200	3	4	50	60x60	61x76x103	4,900
ACA-66	120	240	240	3	4	60	66x60	67x82x105	7,000
ACA-72	140	285	285	3	4	70	72x60	73x88x107	9,900
ACA-84	195	385	385	4	6	95	84x60	85x104x102	13,300
ACA-96	250	500	500	6	6	125	96x60	96x122x110	16,900
ACA-108	320	640	640	6	6	160	108x60	109x134x112	21,000
ACA-120	400	800	800	6	6	200	120x60	121x146x115	24,500

MGA - Manganese Greensand Filter Specifications									
CATALOG NUMBER	FLOW RATES			PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES) ②	SHIPPING WEIGHT (LBS) ③
	SERVICE		BACK WASH	SERVICE	DRAIN				
	CONT. GPM ①	PEAK GPM							
				CU. FT.	INCHES	SINGLE (LxWxH)	SINGLE		
MGA-20	10	15	20	1	1.25	5	20x54	21x30x72	900
MGA-24	15	30	30	1.5	1.5	8	24x54	25x34x73	1,300
MGA-30	20	40	50	1.5	1.5	12	30x54	31x40x76	2,000
MGA-36	30	60	70	2	2	18	36x60	37x48x84	3,000
MGA-42	40	80	100	2	2.5	24	42x60	43x54x88	4,000
MGA-48	50	100	125	3	3	32	48x60	49x62x95	5,600
MGA-54	65	130	160	3	4	40	54x60	55x70x97	7,000
MGA-60	80	160	200	3	4	50	60x60	61x76x103	8,800
MGA-66	95	190	240	3	4	60	66x60	67x82x105	11,500
MGA-72	115	230	285	3	4	70	72x60	73x88x107	14,000
MGA-84	150	300	385	4	6	95	84x60	85x104x102	18,300
MGA-96	200	400	500	6	6	125	96x60	96x122x110	23,500
MGA-108	250	500	640	6	6	160	108x60	109x134x112	29,300
MGA-120	315	630	800	6	6	200	120x60	121x146x115	35,000

'MFS' Series - Dimensions



Notes

- ① At expected pressure loss not exceeding 5 psig, based on a clean filter bed
- ② Dimensions are estimate only. Actual dimensions may vary based on job-site space limits and piping layout. Allow a minimum of 24" above height dimension for resin loading. Use of ASME rated tanks may add up to 12" of tank height. Consult factory for dimensions on skid mounted systems.
- ③ Shipping weights are estimate only. Weights include resin and support gravel, which are added to the tanks after installation.