

'MFGE' Series Media Filter Systems



Overview

The Marlo 'MFGE' Series automatic backwashing media filter system is designed to provide the highest quality in water filtration equipment while covering a wide variety of commercial 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.

'MZE' 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.

'ACE' 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

- Control Valve Body:
 - 1" Valve & 1-1/4" Valve - Noryl
 - 1-1/2" Valve & 2" Valve - Low Lead Brass
- Resin Tanks: Fiberglass reinforced polyethylene - (FRP) NSF 44 certified
- Internal Distributors: Sch 80 PVC/ABS

Instrumentation & Controls

- Clack Digital Control Timers
- Timeclock Initiated Backwash Cycle
- Automatic Backwash Flow Controller

Operating Parameters

- Inlet Pressure: 25-125 psig
- Electrical: 12V circuitry
- 120/12 VAC, 50/60 Hz wall mount transformer
- Temperature: 40-110 °F

Options Available

- Skid mounted, pre-piped, pre-wired systems
- ASME Stamped Pressure vessels (18" dia. & larger)
- Inlet/Outlet pressure gauges and sample valves
- Differential pressure switch backwash cycle
- Recirculation Pumps (Cooling Towers)
- Backwash Water Supply Pumps
- Alternate filter media (Birm, Filter-AG, Calcite)
- RO Lockout Switch

Specifications

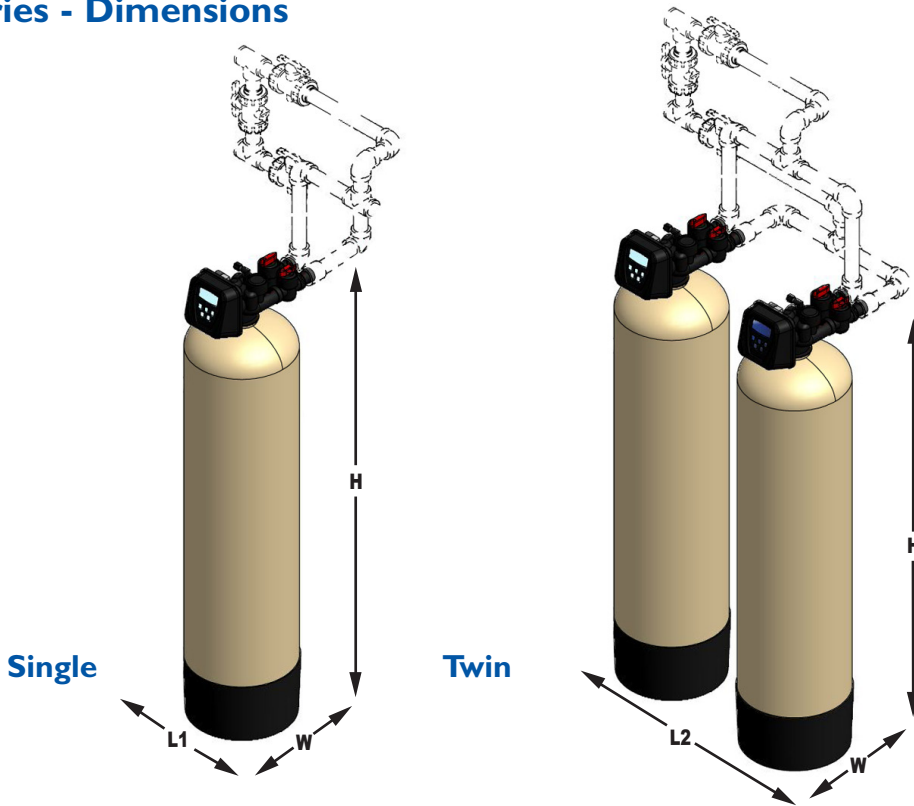
MZE - Natural Zeolite Filter Specifications (Turbidity Reduction)

CATALOG NUMBER	FLOW RATES		PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES)			SHIPPING WEIGHT (LBS)	
	SERVICE		BACK WASH	SERVICE			DRAIN	②			
	CONT. GPM ①	PEAK GPM						INCHES (NPT)	INCHES (NPT)		SINGLE (L1xWxH)
			GPM	INCHES (NPT)			INCHES (NPT)				
MZE-10G-1	5	10	9	1	3/4	1	10x54	10x10x62	32x10x62	105	
MZE-12G-1	8	16	13	1	1	2	12x52	12x12x60	36x12x60	170	
MZE-13G-1/1/2	8	16	15	1-1/2	1	2	13x54	13x13x65	38x13x65	190	
MZE-14G-1	10	20	17	1	1	3	14x65	14x14x73	40x14x73	250	
MZE-14G-1/1/2	10	20	17	1-1/2	1	3	14x65	14x14x73	40x14x73	270	
MZE-16G-1	14	28	20	1	1	4	16x65	16x16x73	44x16x73	330	
MZE-16G-1/1/4	14	28	20	1-1/4	1	4	16x65	16x16x73	44x16x73	330	
MZE-16G-1/1/2	14	28	20	1-1/2	1	4	16x65	16x16x73	44x16x73	350	
MZE-18G-1/1/4	17	34	25	1-1/4	1	5	18x65	18x18x75	48x18x75	410	
MZE-18G-1/1/2	17	34	25	1-1/2	1	5	18x65	18x18x75	48x18x75	375	
MZE-21G-1/1/2	25	50	35	1-1/2	1-1/2	7	21x62	21x21x78	54x21x78	590	
MZE-21G-2	25	50	35	2	1-1/2	7	21x62	21x21x78	54x21x78	595	
MZE-24G-1/1/2	30	60	45	1-1/2	1-1/2	10	24x72	24x24x86	60x24x86	825	
MZE-24G-2	30	60	45	2	1-1/2	10	24x72	24x24x86	60x24x86	830	
MZE-30G-2	50	100	75	2	1-1/2	15	30x72	30x30x85	72x30x85	1,265	

ACE - Activated Carbon Filter Specifications (Dechlorination)

CATALOG NUMBER	FLOW RATES		PIPE SIZE		MEDIA	TANK SIZE	OVERALL DIMENSIONS (INCHES)			SHIPPING WEIGHT (LBS)	
	SERVICE		BACK WASH	SERVICE			DRAIN	②			
	CONT. GPM ①	PEAK GPM						INCHES (NPT)	INCHES (NPT)		SINGLE (L1xWxH)
			GPM	INCHES (NPT)			INCHES (NPT)				
ACE-10G-1	2	5	5.3	1	3/4	1	10x54	10x10x62	32x10x62	85	
ACE-12G-1	4	8	7.5	1	3/4	2	12x52	12x12x60	36x12x60	125	
ACE-13G-1/1/2	4	8	9	1-1/2	3/4	2	13x54	13x13x65	38x13x65	145	
ACE-14G-1	5	10	10	1	3/4	3	14x65	14x14x73	40x14x73	185	
ACE-14G-1/1/2	5	10	10	1-1/2	3/4	3	14x65	14x14x73	40x14x73	205	
ACE-16G-1	7	14	13	1	1	4	16x65	16x16x73	44x16x73	245	
ACE-16G-1/1/4	7	14	13	1-1/4	1	4	16x65	16x16x73	44x16x73	245	
ACE-16G-1/1/2	7	14	13	1-1/2	1	4	16x65	16x16x73	44x16x73	260	
ACE-18G-1/1/4	9	18	17	1-1/4	1	5	18x65	18x18x75	48x18x75	300	
ACE-18G-1/1/2	9	18	17	1-1/2	1	5	18x65	18x18x75	48x18x75	315	
ACE-21G-1/1/4	12	24	25	1-1/4	1	7	21x62	21x21x78	54x21x78	420	
ACE-21G-1/1/2	12	24	25	1-1/2	1	7	21x62	21x21x78	54x21x78	435	
ACE-21G-2	12	24	25	2	1	7	21x62	21x21x78	54x21x78	440	
ACE-24G-1/1/2	15	30	30	1-1/2	1-1/2	10	24x72	24x24x86	60x24x86	605	
ACE-24G-2	15	30	30	2	1-1/2	10	24x72	24x24x86	60x24x86	610	
ACE-30G-2	24	48	50	2	1-1/2	15	30x72	30x30x85	72x30x85	935	
ACE-36G-2	35	70	70	2	1-1/2	20	36x72	36x36x98	84x36x98	1,265	

'MFGE' Series - Dimensions



NOTE:
Installation piping (shown in broken lines) are provided by others.

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 media loading. Consult factory for dimensions on skid mounted systems.
- ③ Shipping weights are estimate only. Weights include media and support gravel, which are added to the tanks after installation. Double weight for twin tank systems.