

'MRG' Series Water Softener Systems



Overview

The Marlo 'MRG' Series water softener system offers a corrosion resistant alternative for commercial & industrial applications. Equipped with FRP resin tanks and external control valve manifold, it achieves higher service flow rates than traditional top-mount, multi-port valve configurations. All systems are completely factory skid mounted, pre-piped, pre-wired, and pre-tested for minimal installation time and cost. Standard designs available for twin and triple tank configurations.

Standard Features

- Composite FRP resin tank with tri-pod base
- Aquamatic diaphragm style control valves
- Volume and/or time initiated regeneration cycle
- Polyethylene brine tank assembly
- Air or water actuated control valves
- High capacity, cation exchange resin
- Tank isolation valves & system bypass valve
- Inlet/Outlet tank sampling valves
- Factory Hydro-tested at 100 psig

Materials of Construction

- Resin Tanks: FRP
- Exterior Piping: Sch 80 PVC
- Internal Distributors: Sch 80 PVC / ABS
- Control Valves: Noryl Thermoplastic
- Skid: Painted, Carbon Steel

Instrumentation / Controls

- Marlo MX-III electronic system controller
- Alternating or parallel progressive flow control
- NEMA-4X electrical enclosures
- Signet paddle-type flow sensors
- Inlet/Outlet tank pressure gauges

Operating Parameters

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

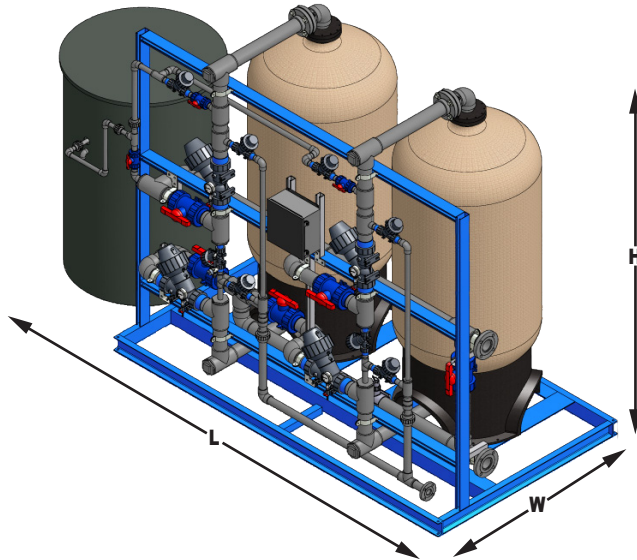
Options Available

- ASME rated resin tanks
- Allen-Bradley PLC systems
- Bulk Brinemaker Silos
- Brine pump skids
- CPVC exterior piping
- Butterfly control valves (air-operated)
- Alternate ion exchange resins
- Online hardness monitor
- Polyurethane skid painting
- 'SRS' Salt Recycling Systems

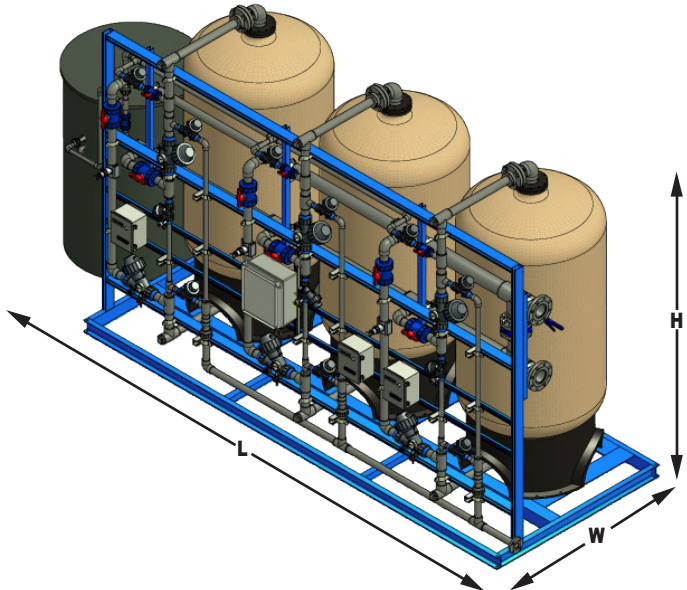
'MRG' Series Specifications

MODEL NUMBER	CAPACITY (Grains) SALT DOSAGE (LBS.) ❶		FLOW RATES (PER TANK)			PIPE SIZE		RESIN CU. FT.	TANK SIZES		HEADER SIZES ❸		OVERALL DIMENSIONS (LxWxH, INCHES) ❹		SHIPPING WEIGHT (LBS.) ❺	
	MAX. (per tank)	CONT. GPM ❷	PEAK GPM ❸	GPM	SERVICE INCHES	DRAIN INCHES	SOFTENER INCHES		BRINE ❹ INCHES	TWIN PARALLEL INCHES	TRIPLE PARALLEL INCHES	TWIN	TRIPLE	TWIN	TRIPLE	
MRG-210-2	210,000 105	80	110	12	2	1	7	21x62	24x50	2.5	3	122x42x98	159x42x98	2,030	2,970	
MRG-300-2	300,000 150	82	115	15	2	1	10	24x72	24x60	2.5	3	130x46x101	170x46x101	2,710	3,965	
MRG-300-3	300,000 150	140	190		3	1				4	4					
MRG-450-2	450,000 225	92	125	20	2	1	15	30x72	30x60	2.5	3	150x52x106	196x52x106	3,830	5,620	
MRG-450-3	450,000 225	165	230		3	1				4	4					
MRG-600-3	600,000 300	175	250	30	3	1-1/2	20	36x72	39x60	4	4	170x58x106	222x58x106	4,950	7,250	
MRG-900-3	900,000 450	188	279	45	3	2	30	42x72	42x60	4	4	185x64x108	243x64x108	7,620	11,200	
MRG-1200-3	1,200,000 600	215	300	60	3	2	40	48x72	56x62	4	6	211x70x112	274x70x112	9,840	14,500	
MRG-1500-3	1,500,000 750	235	325	110	3	3	50	63x86	74x64	4	6	258x85x113	338x85x113	15,250	22,600	

'MRG' Series Twin



'MRG' Series Triple



Notes

- ❶ Salt dosage equal to 15 lbs. per cu. ft. resin for maximum exchange capacity.
- ❷ At a pressure drop not exceeding 15 psig.
- ❸ At a pressure drop not exceeding 25 psig.
- ❹ Brine tanks designed for a salt storage of at least 4 regeneration cycles.
- ❺ Main service headers indicated for parallel flow applications. Headers sizes for twin alternating systems are equal to the tank service pipe size.
- ❻ Dimensions are estimate only. Actual dimensions may differ dependent on options selected.
- ❼ Shipping weights are estimate only. Weights include resin and gravel.