

## 'MAT' Series Softener Systems



### Overview

The Marlo 'MAT' softener is a meter initiated twin-alternating softener that effectively reduces hard-water scale. This results in lower energy costs and longer equipment life.

The twin alternating design provides a continuous supply of softened water for critical applications, such as boiler feed, with a fully recharged tank always in standby.

### Standard Features

- Top-mounted, twin-tank control valve with integral brine injector
- High capacity, sodium form cation resin
- Water meter initiated regeneration
- Inlet/Outlet Sizes - 3/4", 1" or 1-1/2"
- NSF certified corrosion resistant pressure vessels
- Brine tank assembly with salt shelf and safety overflow valve
- Hardness test kit

### Materials of Construction

- Control Valve Body:
  - Glass-filled Noryl - Fleck 9100, (3/4" and 1")
  - Bronze - Fleck 9500, (1-1/2")
- Meter: Brass or glass filled Noryl
- Resin Tanks: FRP
- Internal Distributor: PVC/ABS
- Brine Tank: Corrosion resistant polyethylene

### Instrumentation / Controls

- Fleck SXT digital display electronic timer
- Meter initiated with override option
- Blue backlit LCD display
- Adjustable cycle times
- Service and diagnostic indicators

### Operating Parameters

- Flow Range: 2 gpm - 62 gpm
- Inlet Pressure: 30-125 psig
- Temperature: 40-100°F
- Electrical: 120VAC, 1-Ph, 60 Hz

### Options Available

- Skid mounted, pre-piped, pre-loaded system
- Electromechanical controller
- XT electronic controller with resettable totalizer
- 220 VAC/50Hz electrical power
- Application specific resin
- Larger brine bank

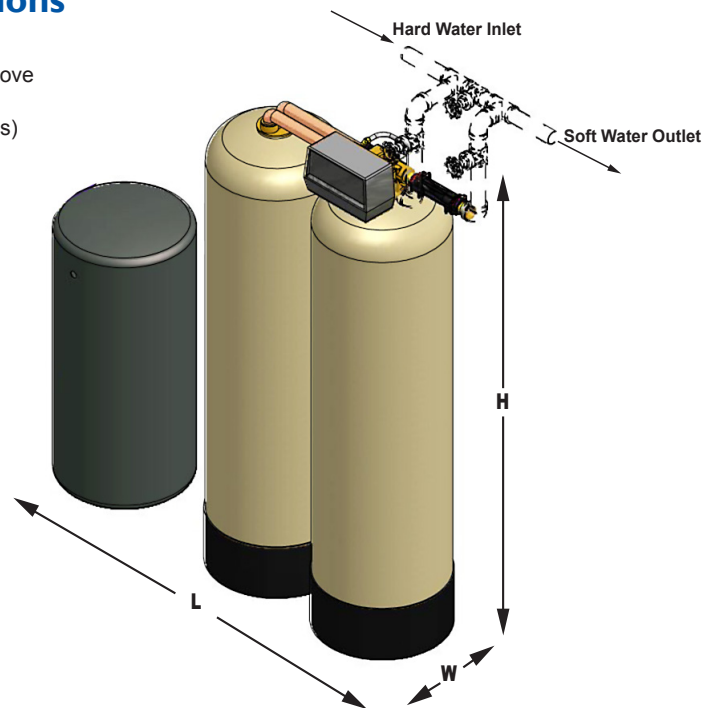
# 'MAT' Series Specifications

MODEL NUMBER	EXCHANGE CAPACITY (Grains)Ⓐ		FLOW RATES			PIPE SIZE		RESIN PER TANK	TANK SIZES		SALT STORAGE	# OF REGENS PER SALT REFILL	OVERALL DIMENSIONS (INCHES) Ⓒ			APPROX SHIPPING WEIGHT (LBS) Ⓓ
			SERVICE		BACK WASH	SERVICE	DRAIN		SOFTENER	BRINE			LENGTH	WIDTH	HEIGHT	SINGLE
	MAX.	MIN.	CONT. GPM Ⓔ	PEAK GPM Ⓕ	GPM	INCHES	INCHES	CU. FT.	INCHES	INCHES	LBS	MAX.				
MAT 15M-3/4	15,000	10,000	12	16	1.2	¾	½	½	7x44	18x33	300	40	38	18	52	130
MAT 22M-3/4	22,000	15,000	13	17	1.6	¾	½	¾	8x44	18x33	300	27	40	18	52	165
MAT 30M-3/4	30,000	20,000	14	19	2	¾	½	1	9x48	18x33	300	20	40	18	56	200
MAT 45M-3/4	45,000	30,000	13	18	2.4	¾	½	1-½	10x54	18x33	375	17	45	18	62	265
MAT 60M-3/4	60,000	40,000	14	19	3.5	¾	½	2	12x52	18x40	320	11	49	18	60	400
MAT 60M-1	60,000	40,000	16	21	3.5	1	½	2	12x52	18x40	320	11	49	18	60	400
MAT 60M-1-½	60,000	40,000	28	39	3.5	1-½	1	2	13x54	18x40	320	11	52	18	62	425
MAT 90M-1	90,000	60,000	17	22	5	1	½	3	14x65	18x40	270	6	54	18	73	625
MAT 90M-1-½	90,000	60,000	31	42	5	1-½	1	3	14x65	18x40	270	6	56	18	75	650
MAT 120M-1	120,000	80,000	18	23	6	1	½	4	16x65	24x40	550	9	64	24	73	825
MAT 120M-1-½	120,000	80,000	34	46	6	1-½	1	4	16x65	24x40	550	9	68	24	75	850
MAT 150M-1-½	150,000	100,000	38	50	8	1-½	1	5	18x65	24x50	500	7	72	24	75	1,150
MAT 210M-1-½	210,000	140,000	39	52	12	1-½	1	7	21x62	24x50	580	6	78	24	75	1,375
MAT 240M-1-½	240,000	160,000	43	57	15	1-½	1	8	24x72	24x50	530	4	84	24	83	1,600
MAT 300M-1-½	300,000	200,000	41	55	15	1-½	1	10	24x72	24x50	440	3	84	24	83	1,850
MAT 450M-1-½	450,000	300,000	45	62	25	1-½	1	15	30x72	30x50	640	3	102	30	83	2,725

## 'MAT' Series Dimensions

### NOTE:

Leave a minimum 24 inch clearance above the height of the unit for loading media.  
Installation piping (shown in broken lines) are provided by others.



### Notes

- Maximum capacity based on 30,000 grains per cubic foot of resin when regenerated with 15 lbs. salt .  
Minimum capacity based on 20,000 grains per cubic foot of resin when regenerated with 6 lbs. salt.
- At pressure loss not exceeding 15 psi.
- At pressure loss not exceeding 25 psi.
- Dimensions are estimate only.
- Shipping weights are estimate only. Weights include resin and support gravel.