

‘MATC’ Series Water Softeners



Overview

The Marlo ‘MATC’ water softener system is a meter initiated twin-alternating softener that offers the commercial or institutional facility a robust and efficient solution for reducing mineral scale, soap usage, and energy consumption in their plumbing and other water-using equipment.

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
- NSF certified corrosion resistant fiberglass tanks
- Piston actuated, multiport, plastic control valves
- Water meter initiated regeneration cycle
- Brine tank assembly with safety overflow
- High capacity sodium form cation exchange resin
- Water hardness testing kit

Materials of Construction

- Control Valve Body:
1" or 1-1/2" Noryl Plastic
- Resin Tanks: Fiberglass reinforced polyethylene - NSF 44 certified
- Internal Distributors: Sch 80 PVC/ABS
- Brine Tank: Corrosion resistant polyethylene
- Meter: Internal

Instrumentation / Controls

- Metered -
LCD Display Screen
On board diagnostics and error reporting
Flow totalizer

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

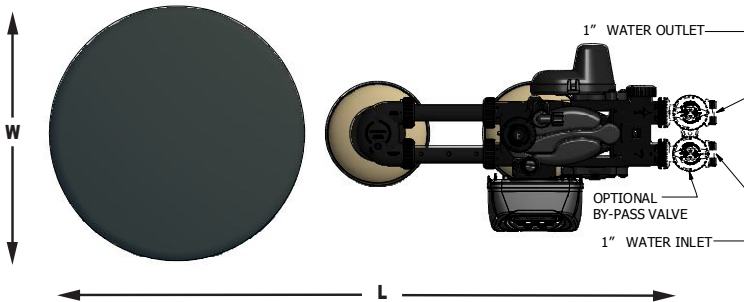
- Skid mounted, pre-piped, pre-loaded systems
- Bypass valve
- Inlet/Outlet pressure gauges and sample valves
- Larger brine tanks
- Multiple voltage options
- Application specific resin

Specifications

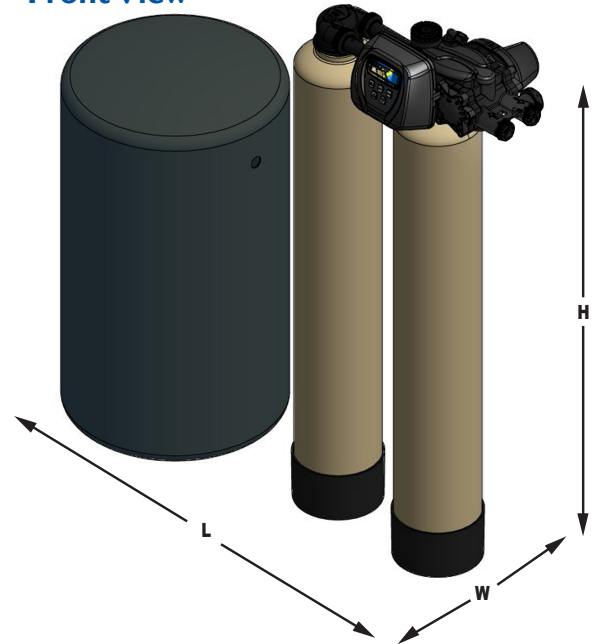
MODEL	EXCHANGE CAPACITY (Grains) / SALT USAGE (Pounds) ❶		FLOW RATES			PIPE SIZE		RESIN	TANK SIZES		SALT STORAGE	OVERALL DIMEN- SIONS (INCHES) ❷	SHIPPING WEIGHT (LBS) ❸
			SERVICE		BACK WASH				SOFTENER	BRINE			
	CONT. GPM ❹	PEAK GPM ❺	SERVICE	DRAIN									
						MAX	MIN						
MATC-22M-1	22,000 / 11.3	15,000 / 4.5	14	19	1.7	1	3/4	0.75	8x44	18x33	290	50x18x52	165
MATC-30M-1	30,000 / 15	20,000 / 6	15	20	2.2	1	3/4	1	9x48	18x33	300	51x18x56	200
MATC-45M-1	45,000 / 22.5	30,000 / 9	17	22	2.7	1	3/4	1.5	10x54	18x40	320	51x18x62	265
MATC-60M-1	60,000 / 30	40,000 / 12	20	25	3.2	1	3/4	2	12x52	18x40	320	54x18x60	400
MATC-60M-1-1/2	60,000 / 30	40,000 / 12	35	45	3.2	1-1/2	3/4	2	13x54	18x40	320	58x18x66	395
MATC-90M-1	90,000 / 45	60,000 / 18	21	26	4.2	1	3/4	3	14x65	18x40	270	57x18x73	625
MATC-90M-1-1/2	90,000/45	60,000/18	35	46	4.2	1-1/2	3/4	3	14x65	18x40	270	60x18x77	620
MATC-120M-1	120,000 / 60	80,000 / 24	23	30	5.3	1	3/4	4	16x65	24x40	550	66x24x73	825
MATC-120M-1-1/2	120,000/60	80,000/24	40	52	5.3	1-1/2	3/4	4	16x65	24x40	550	68x24x77	820
MATC-150-1	150,000 / 75	100,000 / 30	25	31	7.5	1	1	5	18x65	24x50	630	69x24x75	1120
MATC-150M-1-1/2	150,000/75	100,000/30	44	57	7.5	1-1/2	3/4	5	18x65	24x50	630	70x24x79	1120
MATC-180M-1-1/2	180,000/90	120,000/36	51	65	11	1-1/2	3/4	6	21x62	24x50	590	76x24x79	1220
MATC-210M-1-1/2	210,000/105	140,000/42	50	64	11	1-1/2	3/4	7	21x62	24x50	575	76x24x79	1345
MATC-240M-1-1/2	240,000/120	160,000/48	55	71	15	1-1/2	3/4	8	24x72	24x50	530	79x24x85	1570
MATC-270M-1-1/2	270,000/135	180,000/54	54	69	15	1-1/2	3/4	9	24x72	24x50	460	79x24x85	1695
MATC-300M-1-1/2	300,000/150	200,000/60	53	68	15	1-1/2	3/4	10	24x72	24x50	430	79x24x85	1820

'MATC' Series Dimensions

Top View



Front View



Notes

- ❶ 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.
- ❷ At pressure loss not exceeding 15 psi.
- ❸ At pressure loss not exceeding 25 psi.
- ❹ 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.
- ❺ Shipping weights are estimate only. Weights include resin and support gravel, which are added to the tanks after installation.