
CHLORIDE CYCLE DEALKALIZERS



Optional: Preloaded, Skid Mounted,
Prepiped and Prewired

For Commercial / Industrial Applications Such As

Boiler Feedwater Treatment - Cooling Tower Feedwater Treatment

Process Water Treatment

Quality Products For Quality Water

MATD Series Dealkalizers Offer:

EFFICIENT REMOVAL OF ALKALINITY

on the order of 90-95%. Reduces condensate line corrosion and improves boiler performance through reduced blowdown rates.

TWIN TANK ALTERNATING METER INITIATION

provides continuous treated water, 24 hours per day and regenerates only when needed, based on total volume usage. Saves salt, caustic, and regeneration water.

ALL BRASS, MOTOR DRIVEN CONTROL VALVE

with fully adjustable regeneration cycles. Eliminates problems caused by fluctuating water pressure and allows for simplified adjustments to handle those severe water problems.

FIBERGLASS RESIN TANKS/ POLYETHYLENE BRINE TANKS/ PRE-ENGINEERED REGENERATION SYSTEM

consisting of a brine tank and caustic injection pump system for optimum resin capacity. Requires an owner supplied source of 50% liquid caustic soda (drum/carboy).

OPERATING SPECIFICATIONS

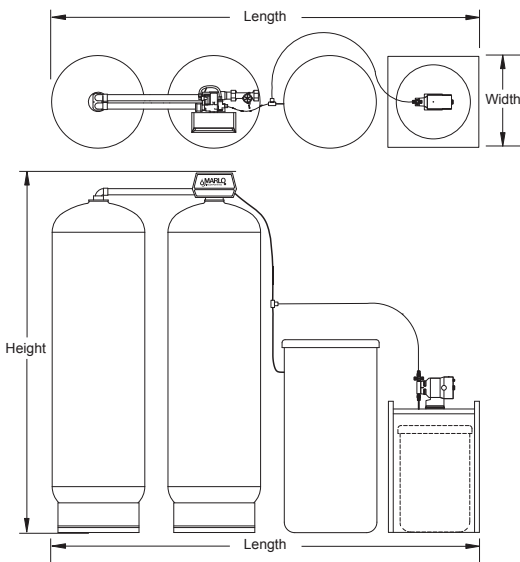
Feedwater source - softened water
 Pressure range - 30 to 125 psi
 Temperature range - 40°F–100°F
 Electrical rating - 120V/60Hz 5A.
 (220V/50Hz. available on request.)

Check with factory for other operating conditions

QUALITY ASSURANCE

All MARLO units are engineered and thoroughly tested to provide years of trouble-free performance with a minimum of maintenance. All components are inspected, tested and warranted in writing.

Catalog No. MATD-	Grain Capacity (Grains, Per Tank) ⑤	Salt Dosage Per Regeneration (pounds)	Caustic Dosage Per Regeneration (pounds)	Pipe and Meter Size In. ①	Service Flow Rates (gpm)		Backwash Flow Rate (gpm)	Anion Resin cu.ft. Per Tank	Tank Sizes Diameter x Height		Salt Storage Lbs.	System Dimensions In. ④		
					Cont ②	Peak ③			Softener In.	Brine In.		Length	Width	Height
10-3/4	10,000	5	0.33	3/4	2.5	5	1.1	1	9 x 48	18 x 33	300	72	24	56
20-3/4	20,000	10	0.66	3/4	5	10	1.9	2	12 x 52	18 x 33	300	79	24	60
30-1	30,000	15	1.00	1	7.5	15	2.8	3	14 x 65	18 x 33	300	84	24	73
40-1	40,000	20	1.33	1	10	20	3.5	4	16 x 65	18 x 40	325	88	24	73
50-1 1/2	50,000	25	1.65	1.5	12.5	25	4.4	5	18 x 65	18 x 40	325	96	24	75
60-1 1/2	60,000	30	2.00	1.5	15	30	6.0	6	21 x 62	18 x 40	325	102	24	72
80-1 1/2	80,000	40	2.65	1.5	20	40	7.8	8	24 x 72	24 x 40	550	114	24	82
100-1 1/2	100,000	50	3.33	1.5	25	50	12.2	10	30 x 72	24 x 40	550	132	24	82



NOTES

- ① 3/4 In. meter is plastic with a range of Standard 125 to 2,125 gallons – minimum flow rate of 0.25 GPM
 Extended 625 to 10,625 gallons – minimum flow rate of 0.25 GPM
 1 In. meter is brass with a range of Standard 310 to 5,270 gallons – minimum flow rate of 0.7 GPM
 Extended 1,550 to 26,350 gallons – minimum flow rate of 0.7 GPM
 1 1/2 In. meter is brass with a range of Standard 625 to 10,625 gallons – minimum flow rate of 1.5 GPM
 Extended 3,125 to 53,125 gallons – minimum flow rate of 1.5 GPM
 Extended range water meters are provided on all models. Request standard range water meter when total exchangeable anions exceeds 25 GRAINS/GALLON
- ② At a pressure loss not exceeding 15-PSI.
- ③ At a pressure loss not exceeding 25-PSI.
- ④ Includes space requirements for 50-gallon drum of 50% caustic soda.
- ⑤ Capacity based on 10,000 grains per cubic foot of resin when regenerated with 5 lbs. salt and 0.33 lbs. caustic. Capacity decreases as chloride levels exceed 10% of the total anions.



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