

Quality Products for Quality Water

'MATD' Series Dealkalizer Systems



Overview

The Marlo 'MATD' chloride-cycle dealkalizer system effectively reduces the incoming alkalinity in feed water resulting in lower blowdown rates, lower condensate return corrosion, and a more effective chemical treatment program for your boiler system.

All systems are twin-alternating to provide a continuous supply of dealkalized water. Standard models with treat up to 50-GPM.

Standard Features

- Fiberglass reinforced polyester (FRP) resin tanks
- High capacity, strong-base anion resin in chloride form (Type II)
- Water meter initiated regeneration cycle
- Top-mounted, twin-tank control valve with integral brine injector
- Brine tank assembly with salt shelf and safety overflow valve
- Caustic injection system with metering pump, pump stand, and control panel

Materials of Construction

- Resin Tanks: FRP
- Pump Body: PVC
- Internal Distributor: PVC/ABS
- Brine Tank: Polyethylene
- Pump Stand: Painted carbon steel
- Control Valve Body: Fleck 9100, Noryl thermoplastic (3/4" and 1") Fleck 9500, Bronze (1-1/2")

Instrumentation / Controls

- Fleck 'XT' digital display electronic timer
- Resettable water usage totalizer
- Attached turbine-type water meter
- Pulsafeeder Series A+ metering pump
- Pre-wired caustic pump outlet with adjustable relay timer

Operating Parameters

- Feedwater Source: Softened Water (<1 gpg)
- Inlet Pressure: 30-125 psig
- Electrical: 120VAC, 1-Ph, 60 Hz.
- Temperature: 40-100°F

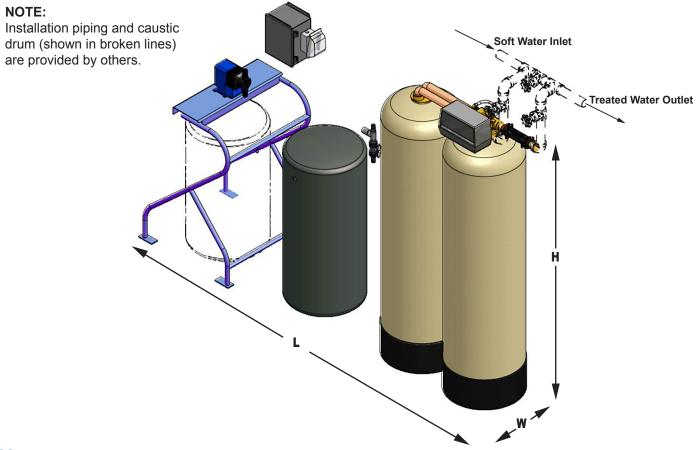
Options Available

- Skid mounted, pre-piped, pre-loaded system
- Alternate ion exchange resins
- Alternate chemical pumps
- 220 VAC/50Hz electrical power

'MATD' Series Specifications

MODEL NUMBER	GRAIN CAPACITY	SALT DOSAGE PER REGENERATION	CAUSTIC DOSAGE PER REGENERATION	PIPE & Meter Size	SERVICE FLOW RATE		BACKWASH FLOW RATE	ANION RESIN PER TANK	TANK SIZES			OVERALL			APPROX.
									SOFTENER	BRINE	SALT STORAGE	DIMENSIONS (INCHES)			SHIPPING WEIGHT
	GRAINS PER TANK	LBS.	LBS.	INCHES	CONT. 🕑	PEAK 🕄	GPM	CU. FT.	INCHES	INCHES	LBS.	LENGTH	WIDTH	HEIGHT	LBS.
MATD-10-3/4	10,000	5	0.33	3/4	2.5	5	1.1	1	9x48	18x33	300	72	24	56	210
MATD-20-3/4	20,000	10	0.66	3/4	5	10	2	2	12x52	18x33	300	79	24	60	400
MATD-30-1	30,000	15	1.00	1	7.5	15	3	3	14x65	18x33	300	84	24	73	625
MATD-40-1	40,000	20	1.33	1	10	20	3.5	4	16x65	18x40	325	88	24	73	830
MATD-50-1-1/2	50,000	25	1.65	1.5	12.5	25	5	5	18x65	18x40	325	96	24	75	1150
MATD-60-1-1/2	60,000	30	2.00	1.5	15	30	6	6	21x62	18x40	325	102	24	72	1270
MATD-80-1-1/2	80,000	40	2.65	1.5	20	40	8	8	24x72	24x40	550	114	24	82	1640
MATD-100-1-1/2	100,000	50	3.33	1.5	25	50	12	10	30x72	24x40	550	132	24	82	2230

'MATD' Series Dimensions



Notes

- 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.
- At a pressure loss not exceeding 15-PSI.
- At a pressure loss not exceeding 25-PSI.
- Includes space requirements for 50-gallon drum of 50% caustic soda.

