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

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>GRAIN CAPACITY</th>
<th>SALT DOSAGE</th>
<th>CAUSTIC DOSAGE</th>
<th>PIPE &amp; METER SIZE</th>
<th>SERVICE FLOW RATE</th>
<th>BACKWASH FLOW RATE</th>
<th>ANION RESIN</th>
<th>TANK SIZES</th>
<th>SALT STORAGE</th>
<th>OVERALL DIMENSIONS</th>
<th>APPROX. SHIPPING WEIGHT</th>
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### 'MATD' Series Dimensions

**NOTE:**
Installation piping and caustic drum (shown in broken lines) are provided by others.

### Notes

1. 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.
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.