'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**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>EXCHANGE CAPACITY (Grains)</th>
<th>FLOW RATES</th>
<th>PIPE SIZE</th>
<th>RESIN PER TANK</th>
<th>TANK SIZES</th>
<th>SALT STORAGE</th>
<th># OF REGENS PER SALT REFILL</th>
<th>OVERALL DIMENSIONS (INCHES)</th>
<th>APPROX SHIPPING WEIGHT (LBS)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MAX.</td>
<td>MIN.</td>
<td>CONT.</td>
<td>PEAK</td>
<td>BACK WASH</td>
<td>SERVICE</td>
<td>DRAIN</td>
<td>SERVICE</td>
<td>BACK WASH</td>
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</table>

**'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**

1. 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.
2. At pressure loss not exceeding 15 psi.
3. At pressure loss not exceeding 25 psi.
4. Dimensions are estimate only.
5. Shipping weights are estimate only. Weights include resin and support gravel.