'MST' Series Water Softener Systems

Overview
The Marlo ‘MST’ water softener systems are designed to fit the requirements of many types of commercial and institutional applications. Whether it is for boiler feed or domestic supply water for a school or hotel, the MST offers a robust and efficient solution for reducing mineral scale, soap usage, and energy consumption in the plumbing and other water using equipment.

Standard Features
- Carbon steel resin tanks with epoxy-lined interior
- Upper/Lower vessel handholes (4”x 6”)
- Piston driven, multiport, top mount control valves
- Meter initiated regeneration cycle
- Brine tank assembly with safety overflow
- Sodium form cation exchange resin
- Water hardness testing kit

Materials of Construction
- Control Valve Body: Low-lead brass
  - Fleck 2900 - 2” valve
  - Fleck 3900 - 3” valve
- Resin Tanks: Carbon steel with Safety Blue exterior paint
- Tank Lining: NSF 61 rated epoxy coating
- Internal Distributors: Sch 80 PVC/ABS
- Brine Tank: Corrosion resistant polyethylene

Instrumentation / Controls
- Metered 'NXT' control interface
- LED Display screen, status lights
- On board diagnostics and error reporting
- Meter: 2” Noryl turbine or 3” Signet paddle-type flow totalizer

Operating Parameters
- Inlet pressure: 30 – 100 psig
- Electrical: 24V circuitry
- 120/24 VAC, 50/60 Hz wall mount transformer
- Temperature: 35 – 100 °F

Options Available
- Skid mounted and pre-piped system
  - Sch 80 PVC or Copper piping
- Multi-tank system configurations (Twin, Triple)
- Alternating or Progressive flow configurations
- Building Management System (BMS) communication
- ASME rated pressure vessels
- Seismic rated designs
- Stainless steel turbine type meters (2” and 3”)
- Inlet/Outlet pressure gauges and sample valves
- Larger brine tanks
- Multiple voltage options
- Side mount control valves
### 'MST' 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>OVERALL DIMENSIONS (INCHES)</th>
<th>SHIPPING WEIGHT (LBS)</th>
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<td>CONT. GPM</td>
<td>PEAK GPM</td>
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### 'MST' Series Dimensions

**Note:** Installation piping by others

![Single:](image1)

![Twin:](image2)

![Triple:](image3)

### Notes

1. Maximum capacity base 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 estimates 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. Use of ASME rated tanks may add up to 12” of tank height.

5. Shipping weights are estimate only. Weights include resin and support gravel, which are added to the tanks after installation.