# COMMERCIAL WATER SOFTENER SYSTEM
## 95 MTS SERIES

**All systems are available in single, duplex, triplex, and quadplex operation.**

### Overview

Canature has dedicated professional engineers with decades of commercial water treatment experience. Over the years, they have built a reputation for designing efficient, high quality commercial water softener systems.

Our 95 MTS Series softeners provide up to 132 gpm continuous soft water (one tank allowed off line for regeneration at all times) 24 hours a day. They are engineered and thoroughly tested to provide years of reliable, trouble free performance with a minimum of maintenance.

### Operating Parameters

- Operating pressure: 20 - 125 psi
- Operating temperature: 39 - 100° F
- Electrical: Input 120V 60 Hz - Output 12V 650mA

### Materials of Construction

- Control Valve: Plastic PPO (Noryl)
- Resin Tanks: Corrosion resistant fibreglass reinforced polyethylene NSF 44 Certified
- Brine Tank: High density polyethylene (includes plastic salt plate, brine well cap, air check and safety float)
- Ion Exchange Resin: High Capacity WQA certified 8% Canature resin
- Internal Distributors: Sch 80 PVC/ABS

### Standard Features

- MTS Controller: Fully programmable remote mounted control box.
- Parallel Flow: All tanks on-line and are interlocked so only one can regenerate at a time.
- Alternating Flow: At least one tank is always off-line for regeneration or ready in stand by.
- Demand Flow: Tanks come on or off-line according to the flow rate demand so that the system is always operating at optimum efficiency.
- Remote Start Signal Input: A remote button to be added so that a manual regeneration can be initiated from another location.
- System Interlock: A signal from other equipment can be accepted to lock out and prevent the system from regenerating.
- Advanced Diagnostic Information: Easily trouble shoot and access system information displayed in real time.
- Auxiliary Outputs: Up to two programmable outputs / relays can be added.

### Optional Features

- Polishing Rinse: A small pump recycles water from outlet to the inlet to keep the product water “polished” for high quality.
- Battery Back Up System: In the even of a power loss, the system can continue to meter and monitor water usage for up to 9 hours.
- Pre-Assembled: Systems can be pre-plumbed and pre-wired if required.

### For Applications Such As

Apartments - Boiler Treatment - Cooling Towers - Motels - Schools - Nursing Homes - Car Wash - Dairies - Factories
Laundromats - Office Buildings - Resorts - Restaurants - RO Pre-treatment - Office Buildings - Hospitals

## 95 MTS Systems Offer Unique Advantages

### Optimum Softening Efficiency

MTS systems use 40-50% less salt and regeneration water compared to conventional systems. During periods of high flow demand, tanks come on-line to add flow rate capacity. During periods of low flow demand, tanks go off-line insuring optimal efficiency and product water quality.

### Lower Capital Cost & Increased Flexibility

MTS systems are easily expandable and scalable. Additional tanks can be added to increase the capacity of the system as needed resulting in a lower initial investment compared to larger single or duplex systems.

### High Quality Soft Water Insurance

Other manufacturers cannot detect low flow rates or any flow at all if there is a power outage resulting in system capacity being consumed undetected. MTS systems can detect flow rates under 1 gpm and total flow during power outages for up to 9 hours insuring all water being treated is accounted for.

### Consistent High Quality Soft Water

MTS series systems are engineered to prevent "channelling" which in other types of systems can cause hard water to leak through the bed during periods of low flow rates. MTS systems bring tanks on and off-line so that the flow rate through the tanks is always at optimal efficiencies to insure high quality soft water .

### Simplicity

The MTS systems are simple to install and maintain. Service technicians familiar with common residential products can easily install or service MTS systems.

## Specifications (Figures are per tank)

| Salt Dosage | | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|---|---|---|---|---|---|---|---|---|---|
| | | Grains Capacity | | | | | | | |
| Grains Capacity at Salt Dosage | 3 lbs/ft$^3$ | 45,000 | 60,000 | 75,000 | 90,000 | 105,000 | 120,000 | 135,000 | 150,000 |
| | 6 lbs/ft$^3$ | 72,000 | 96,000 | 120,000 | 144,000 | 168,000 | 192,000 | 216,000 | 240,000 |
| | 10 lbs/ft$^3$ | 81,000 | 108,000 | 135,000 | 162,000 | 189,000 | 216,000 | 243,000 | 270,000 |
| | 15 lbs/ft$^3$ | 90,000 | 120,000 | 150,000 | 180,000 | 210,000 | 240,000 | 270,000 | 300,000 |
| Recharge Water Use | | 110 gal | 143 gal | 187 gal | 234 gal | 250 gal | 334 gal | 350 gal | 367 gal |
| Resin Quantity | | 3.0 ft$^3$ | 4.0 ft$^3$ | 5.0 ft$^3$ | 6.0 ft$^3$ | 7.0 ft$^3$ | 8.0 ft$^3$ | 9.0 ft$^3$ | 10.0 ft$^3$ |
| Tank Size | | 14x65 | 16x65 | 18x65 | 21x62 | 21x62 | 24x72 | 24x72 | 24x72 |
| Brine Tank Size (Inches) | | 23.0 x 40.5 | 23.0 x 40.5 | 23.0 x 40.5 | 29.1 x 50.2 | 29.1 x 50.2 | 29.1 x 50.2 | 29.1 x 50.2 | 29.1 x 50.2 |
| Salt Storage Capacity | | 420 lbs | 420 lbs | 420 lbs | 700 lbs | 700 lbs | 700 lbs | 700 lbs | 700 lbs |
| Optimum Flow Rate | | 15 gpm | 20 gpm | 25 gpm | 30 gpm | 31 gpm | 32 gpm | 32 gpm | 32 gpm |
| Flow Rate @ 15 psi ΔP | | 25 gpm | 27 gpm | 32 gpm | 31 gpm | 31 gpm | 32 gpm | 32 gpm | 32 gpm |
| Flow Rate @ 25 psi ΔP | | 35 gpm | 38 gpm | 43 gpm | 42 gpm | 42 gpm | 44 gpm | 44 gpm | 43 gpm |
| Back Wash Flow Rate | | 5 gpm | 7 gpm | 8 gpm | 11 gpm | 11 gpm | 17 gpm | 17 gpm | 17 gpm |
| Connecting Pipe Size | | 2" NPT | | | | | | | |
| Electrical Requirements | | Input 120V 60 Hz - Output 12V 650mA | | | | | | | |
| Water Temperature | | Min 39 - Max. 100 degrees Fahrenheit | | | | | | | |
| Water Pressure | | Min. 20 - Max. 125 psi | | | | | | | |

Duplex = 2 Brine Tank

Triplex = 3 Brine Tanks

Quadplex = 4 Brine Tanks

**Model Numbers**

95 MTS - [cubic feet resin x 100] - [qty tanks]

Example:

95 MTS-300-2 = 3 cubic feet resin each tank, (2) 14x65 tanks

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