

105MTS Series Commercial Water Softener

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

Canature WaterGroup™ 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.

105 MTS Series softeners provide up to 192 gpm continuous soft water (Quadplex system with 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 minimal maintenance.

Operating Parameters

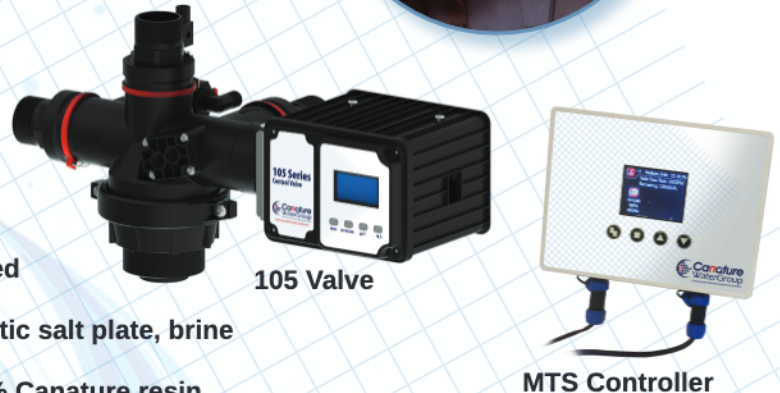
- Operating pressure: 20 - 100 psi
- Operating temperature: 39 - 100° F
- Electrical: Input 120V 60 Hz - Output 24VAC

Materials of Construction

- Control Valve: Plastic PPO (Noryl) - NSF 44 Certified
- 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
- NSF 44 Certified for Materials and Structural Integrity Requirements

Standard Features

- MTS Controller: Fully programmable remote mounted control box
- Inlet outlet connections available in 1.5" or 2.0"
- 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
- Responsive Flow: Tanks come on or off-line according to the flow rate demand so that the system is always operating at optimum efficiency
- 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
- Battery Back Up System: In the event of a power loss, the system can continue to meter and monitor water usage for up to 9 hours
- Upflow Regeneration and Treated Water Regeneration



105 Valve

MTS Controller



105 MTS System

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



105MTS Series Specifications

Model	Capacity	Resin	Salt Usage		Critical Flow	Flow Rates per Tank			Dimensions		
			@6 lbs/Ft3	@10 lbs/Ft3		105 - 1.5"/2"			Max Flow To Drain	Mineral Tank	Brine Tank
			Lbs	Lbs		@ 15 PSI	@ 25 PSI	USGPM		in	in
			Kg	Kg		l/s	l/s	l/s		mm	mm
MTS 90	66,000	3	18	30	15	34	47	5	14 x 65	24 x 37	
	81,000	0.08	8.2	13.6	0.95	2.15	2.97	0.32	356 x 1651	610 x 940	
MTS 120	88,000	4	24	40	20	39	56	7	16 x 65	24 x 37	
	108,000	0.11	10.9	18.1	1.26	2.46	3.53	0.44	403 x 1651	610 x 940	
MTS 150	110,000	5	30	50	25	43	61	9	18 x 65	24 x 37	
	135,000	0.14	13.6	22.7	1.58	2.71	3.85	0.57	475 x 1651	610 x 940	
MTS 180	132,000	6	36	60	30	47	68	12	21 x 62	29 x 50	
	162,000	0.17	16.3	27.2	1.89	2.97	4.29	0.76	533 x 1575	740 x 1275	
MTS 210	154,000	7	42	70	35	46	66	12	21 x 62	29 x 50	
	189,000	0.20	19.1	31.8	2.21	2.90	4.16	0.76	533 x 1575	740 x 1275	
MTS 240	176,000	8	48	80	40	50	71	15	24 x 72	33 x 53	
	216,000	0.27	21.8	36.3	2.52	3.15	4.48	0.95	610 x 1829	840 x 1335	
MTS 270	198,000	9	54	90	45	49	70	15	24 x 72	33 x 53	
	243,000	0.25	24.5	40.8	2.84	3.09	4.42	0.95	610 x 1829	840 x 1335	
MTS 300	220,000	10	60	100	45	48	69	15	24 x 72	33 x 53	
	270,000	0.28	27.2	45.4	2.84	3.03	4.35	0.95	610 x 1829	840 x 1335	
MTS 360	264,000	12	72	120	50	54	76	25	30 x 72	30 x 50	
	324,000	0.34	32.7	54.4	3.15	3.41	4.79	1.58	762 x 1829	762 x 1270	
MTS 390	286,000	13	78	130	50	54	76	25	30 x 72	30 x 50	
	351,000	0.37	35.4	59.0	3.15	3.41	4.79	1.58	762 x 1829	762 x 1270	
MTS 450	330,000	15	90	150	50	52	75	25	30 x 72	36 x 48	
	405,000	0.42	40.8	68.1	3.15	3.15	4.73	1.58	762 x 1829	914 x 1220	

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.

Model Numbers

Example: 105MTS 90-1.5D800 = 3 cubic feet resin each tank, (2) 14x65 tanks

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.

Simple Installation and Maintenance

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)

Duplex = 2 Brine Tank
Triplex = 3 Brine Tanks
Quadplex = 4 Brine Tanks



NSF 44 Certified for Materials and Structural Integrity Requirements*

* Valve and tank are NSF 44



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