Canature™ WaterGroup
Commercial/Industrial Engineering Division

CASE STUDY
CARWASH

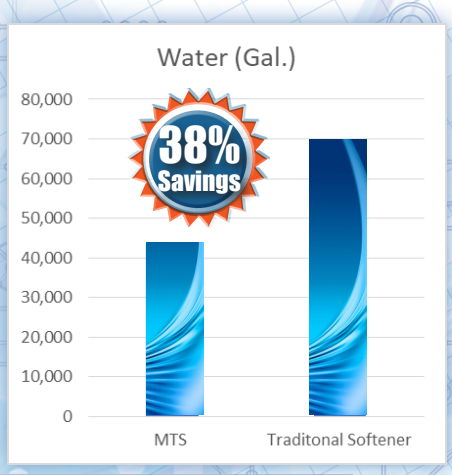
95 MTS Series Commercial Water Softener

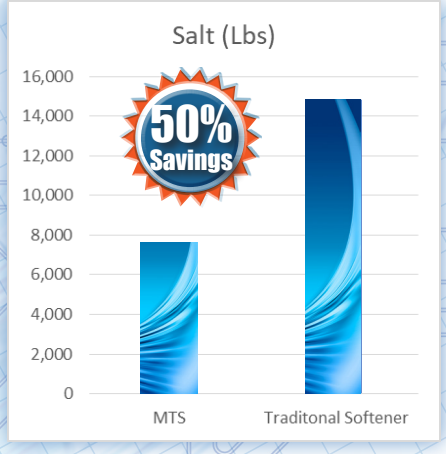
The **95MTS Series Water Softener** provides up to 132 g.p.m. of continuous soft water / 24 hours a day. Systems are engineered and thoroughly tested to provide years of reliable, trouble free performance with minimal maintenance.

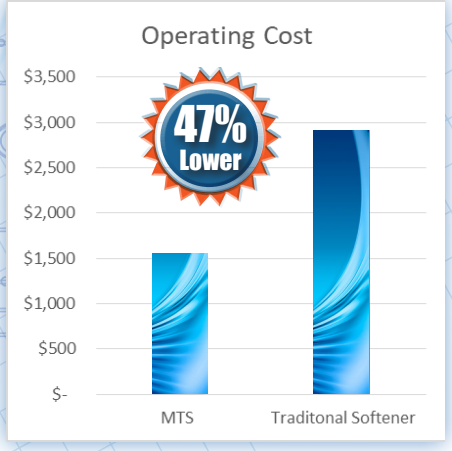
Based on Quadplex system with one tank allowed off line for regeneration at all times.

High-Efficiency Technology Provides Savings You Can't Ignore!

New high-efficiency **Multiple Tank System (MTS)** water softening technology allows you to offer your customers not only a significantly higher **Return-On-Investment (R.O.I.)**, it also provides your customers with other significant advantages when compared to traditional water softeners.







CAR WASH - SINGLE AUTOMATIC

MAXIMUM HARDNESS - GPG	10	20	30	40	50
WATER USED PER WASH - GAL	38	38	38	38	38
AVERAGE WASHES PER DAY	55	55	55	55	55
TOTAL GALLONS PER DAY	2,090	2,090	2,090	2,090	2,090
TYPICAL COMMERCIAL SOFTENER					
SOFTENER EFFICIENCY - GRAINS PER POUND SALT	2,000	2,000	2,000	2,000	2,000
SALT CONSUMPTION PER YEAR - POUNDS	3,814	7,629	11,443	15,257	19,071
REGENERATION WATER PER YEAR - GAL	17,800	35,600	53,400	71,199	88,999
95MTS - HIGH EFFICIENCY					
SOFTENER EFFICIENCY - GRAINS PER POUND SALT	4,000	4,000	4,000	4,000	4,000
SALT CONSUMPTION PER YEAR - POUNDS	1,907	3,814	5,721	7,629	9,536
REGENERATION WATER PER YEAR - GAL	11,125	22,250	33,375	44,500	55,624
ANNUAL OPERATING COST - SALT ($USD)					
SALT COST PER 40 - 45 LB BAG	$6.00	$6.00	$6.00	$6.00	$6.00
TYPICAL SOFTENER	572	1,144	1,716	2,289	2,861
95MTS - HIGH EFFICIENCY	286	572	858	1,144	1,430
SALT SAVINGS	$286	$572	$858	$1,144	$1,430
ANNUAL OPERATING COST - WATER ($USD)					
COST PER GALLON WATER - 0.01	$0.01	$0.01	$0.01	$0.01	$0.01
TYPICAL SOFTENER	178	356	534	712	890
95MTS - HIGH EFFICIENCY	111	222	334	445	556
WATER SAVINGS	$67	$133	$200	$267	$334
ANNUAL SAVINGS (MTS SOFTENER vs. TRADITIONAL SOFTENER)					
SALT SAVINGS (LBS)	-1,907	-3,814	-5,721	-7,629	-9,536
SALT SAVINGS %	-50%	-50%	-50%	-50%	-50%

WATER SAVINGS (GAL)	-6,675	-13,350	-20,025	-26,700	-33,375
WATER SAVINGS %	-38%	-38%	-38%	-38%	-38%

OPERATING COST SAVINGS ($)	**$353**	**$706**	**$1,058**	**$1,411**	**$1,764**
OPERATING COST SAVINGS (%)	**47%**	**47%**	**47%**	**47%**	**47%**

Sources:

Water Used Per Wash -https://www.statisticbrain.com/car-wash-car-detail-industry-stats/

Average Washes Per Day - https://www.statisticbrain.com/car-wash-car-detail-industry-stats/

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 Assurance

Most traditional systems cannot detect low flow rates (or any flow during a power outage) resulting in system capacity being consumed undetected. MTS systems can detect flow rates under 1 g.p.m. 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.

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.

Designed, Engineered & Assembled in the U.S.A.

Canature™ WaterGroup
Commercial/Industrial Engineering Division

TOLL FREE: 877-288-9888
www.canaturewg-cied.com
Regina, SK • Cambridge, ON • Carmel, IN • Fridley, MN
Phoenix, AZ • Pottstown, PA