



Carwashes * Laundromats * Restaurants * Hotels *
Hospitals * Apartments * Hockey Rinks * Schools * Office
Buildings * Manufacturing

Commercial Water Conditioning Products

Industry Leading Expertise

Company Capabilities

We are the fastest growing, most innovative manufacturer of high-quality water conditioning products in the world! No water conditioning manufacturer is doing what we are!

- 925,000 sq. ft. state-of-the-art facility
- ISO9001:2008 Quality Assurance Certified
- CWQA / WQA Member
- Fully automated FRP tank production for maximum consistency resulting in the highest quality and lowest cost
- Precision plastic injection & blow molding
- 1,000,000 annual unit production capacity
- NSF Certified control valves, FRP tanks & assembled systems
- World class materials & water testing laboratories
- Leading Product Development Center
- Dedicated Quality Assurance Team



The World's First Fully Robotic Tank Manufacturing Facility



New Carmel, IN Manufacturing Facility will start producing select tanks in 2015



World Class Testing Laboratory

Sales Management

Our Regional Sales Managers are in the field learning your business, understanding your needs and helping you grow! We have 35 RSM's with 700+ years of experience!

The map displays the following regional sales manager locations:

- CALGARY, AB
- REGINA, SK
- PHOENIX, AZ
- FRIDLEY, MN
- CARMEL, IN
- CAMBRIDGE, ON

Four photos of sales managers are overlaid on the map:

- A manager standing in front of a presentation to a group of people.
- A manager standing in the western US region.
- A manager standing in the central US region.
- A manager standing in the eastern US region.

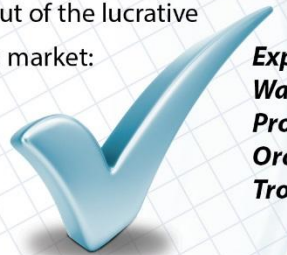
Two inset photos show a manager working on equipment and another working on a device.

Industry Leading Customer Service



Your Water Conditioning Experts

Our Customer Service Team boasts over **200+ years** of direct industry experience. We're here to support you in making the most out of the lucrative water conditioning market:



Expert Technical Support
Water Testing
Product Selection & Sizing
Order Placement
Troubleshooting



Niki Gibson (1 Yr)



Bill Runyan (9 Yrs)



Bruce Matheson (36 Yrs)



Kevin MacMillan (30 Yrs)



Rick Postma (29 Yrs)



Joe Zaborowski (37 Yrs)



Murray Donahoe (41 Yrs)



Lynn Knowlton (2.5 Yrs)



Ed Marshall (10 Yrs)



Roxane Faubel (10 Yrs)

Dedicated Commercial Engineering

With 125 years combined experience, our Commercial Team is the best in the industry. Complete commercial support to make the most out of this lucrative opportunity.



Toby Hughes
Chief Operations Officer



Dave Pitman
Commercial Engineering Manager

► Our **Dedicated Commercial Engineering Division** has the best Professional Engineers and Technologists with over **125+** years of combined experience



Kevin Howatt
Commercial Engineering Technician



Brian Mills
VP of Business Development



Anthony Shurr
Commercial Inside Sales

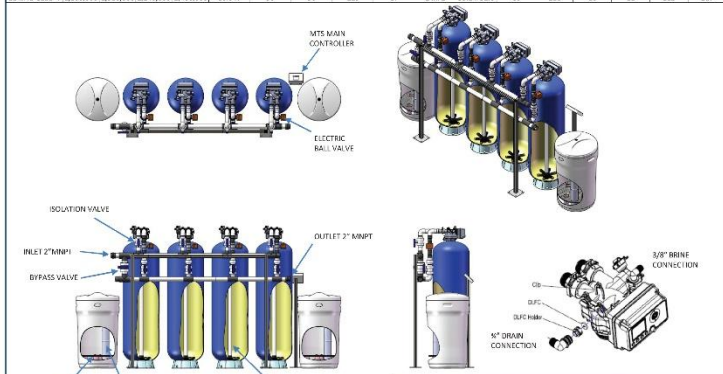


Paul Felix
Commercial Applications Engineer

1000+ Years of Industry Experience
Value-Added Support From The Industry Experts



MODEL	Daily Removal Capacity (60-90)			Resin Volume (Per Tank)	Critical Flow Rate (gpm)	Flow Rate @ 15 psi AOP (gpm)	Flow Rate @ 25 psi AOP (gpm)	Tank Wash Flow Rate (gpm)	Mineral Tank Size (in)	Brine Tank Size (in)	Minimum Installation Space Required (Mineral Tanks Only)						
	3 br/h ¹	0 br/h ¹	15 br/h ¹								Height (in)	Depth (in)	Drain (in)	Width (in)	Width (in)		
95 MTS-1000-4	1,200,000	1,920,000	2,240,000	2,400,000	30.0	96	96	329	17	28x72	33.1 x 52.6	88	213	26	66	105	207



95 MTS-1000-4 Softener System

This document contains information which is proprietary to Water. Where necessary, there may be only partial disclosure of this information to other individuals without objection to our agents products or services or to rate this charge.

Project: _____ Date: 3/15/2013 Rev: 1

DWG # 95MTS-1000-4



Commercial Capabilities Softeners & Filters

Canature offers a complete line of Commercial Water Softener & Filtration Treatment Equipment including our new 95 Valve and 95 MTS Systems.

Water Softeners & Filters

1) CW-FAF Series

- 1", 1.5", 2", 3" brass Valves
- 10" to 63" in diameter tanks
- 1.5 ft³ to 58 ft³ media per tank
- Single, duplex, triplex, quadplex

2) 95 Single Series

- 1", 1.5" plastic
- 10" to 24" in diameter tanks
- 1.5 ft³ to 10 ft³ media per tank
- Single

NEW

3) 95 MTS Series

- 1", 1.5" plastic
- 10" to 24" in diameter tanks
- 1.5 ft³ to 10 ft³ media per tank
- Single, duplex, triplex, quadplex

NEW

4) 85TA Series

- 1" plastic
- 8" to 14" in diameter tanks
- 0.75 ft³ to 3ft³ media per tank
- Duplex Alternating

NEW



Commercial Capabilities Reverse Osmosis

Canature offers a complete line of Commercial & Industrial Reverse Osmosis Systems.



1. **Can LC Series**
 - 400 to 800GPD
 - (0.28 GPM)



2. **Can 2540/4040 Series**
 - 600 to 10,000 GPD (0.42 – 7 GPM)

Introducing 95 MTS Series

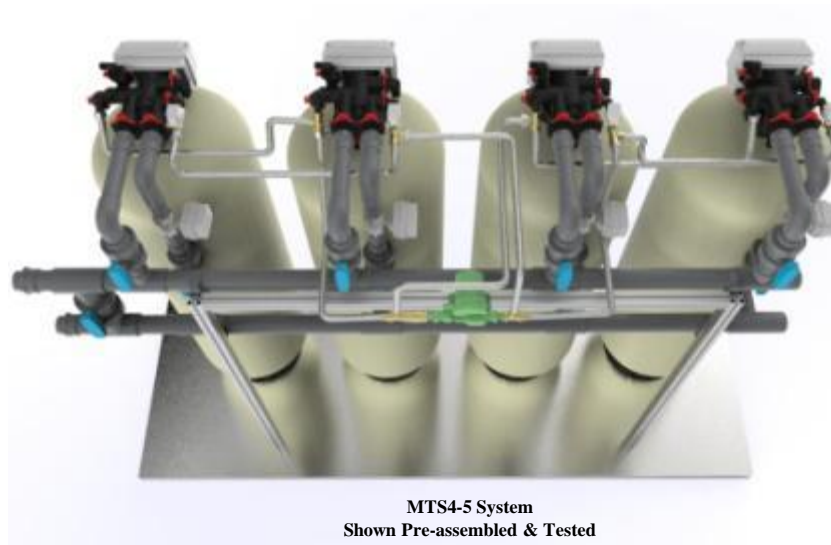
Introducing Canature MTS (Multiple Tank Systems) series water softeners or filters. Perfect for commercial or light industrial applications that need continuous uninterrupted supply of softened or filtered water.

Tough Corrosion Resistant Pressure Vessels

NSF approved filament wound mineral tanks with rugged polyethylene liners backed by a 10 year warranty.

High Flow BNT 950 Control Valves

Feature BNT950 control valve backed by a full 5 year parts and labour warranty.



High Capacity Resin

Premium NSF 44 approved 8% Cation resin.

MTS Systems

Softeners are available in Duplex, Triplex, and Quad systems up to 24x72 tanks. Up to 16 tanks can be connected into a filter system with one controller. Filter tanks can range up to 21x62.

MODEL	Daily Removal Capacity (Grains)				Resin Volume (Per Tank)	Critical Flow Rate	Flow Rate @ 15 psi ΔP	Flow Rate @ 25 psi ΔP	Back Wash Flow Rate (gpm)	Mineral Tank Size (In)	Brine Tank Size (In)	Installation Space Required					
	3 lb/h ³	8 lb/h ³	10 lb/h ³	15 lb/h ³		Flow rate (gpm) with 1 tank in stand by	Height (In)	Height (cm)				Depth (In)	Depth (cm)	Width (In)	Width (cm)		
95 MTS-300-4	360.000	576.000	672.000	720.000	3.0 ft ³	45	75	105	5	14x85	23.0 x 40.5	77	196	32	81	80	203

NOTE:
MTS SYSTEM MAY INCLUDE 1 – 4 BRINE TANKS DEPENDING ON OPERATING CONDITIONS AND SALT STORAGE REQUIREMENTS.

95 MTS-300-4 Softener System

This document contains information which is proprietary to Canature. Canature reserves the right to make product revisions that may deviate from the specifications without obligation to change previous products or to note the change.

Project:	Date: 5/15/2015	Rev: 1
DWG # 95MTS-300-4		

Flow Rate Performance

MTS systems assume one tank is always available for regeneration while the others supply continuous soft water. A standard duplex system ALSO requires one tank on line and the other tank off line or ready in stand by to supply continuous soft water.

MTS-300-4 (14x65) System



2900 Duplex c/w 24x72 Tanks



System	Flow Rate - GPM	
	15 PSI Pressure Drop	25 PSI Pressure Drop
MTS-300-4 (14x65)	75 gpm (17 T/H)	105 gpm (24 T/H)
2900 Duplex c/w 24x72	66 gpm (14 T/H)	94 gpm (19 T/H)

MTS systems with more smaller tanks can match the same flow rate performance compared to large brass valve and tank Duplex Systems!

Sizing 95MTS Systems

Sizing an 95MTS system for flow rate and capacity is very similar to sizing other commercial softener systems.

- Obtain a properly taken water analysis.
 - Use portable test kit (hach)
 - Check local water utility (i.e. Regina 18-20 gpg)
 - Send water sample to Canature
 - Check for hardness (1 gpg = 17.1 ppm), total iron, total manganese, and TDS (ppm or mg/l)
- Determine daily water to be softened
 - Use consumption from water bills
 - Take water meter readings
 - Use sizing tables if A or B not available

Sizing 95MTS Systems

Continued

- Determine the continuous and peak flow rates
 - Use Water Supply Fixture Units to determine required flow rates
 - Obtain flow rates from continuous equipment which require softened water
 - Install digital readout water meter and record flow rates
- Determine capacity required per day
 - Capacity = (gallons per day x compensated hardness)
 - Compensated hardness = (water hardness gpg) + (ppm Fe x 4) + (ppm Mn x 8)
 - If ferric iron present, iron filter is required
- Select the proper unit for continuous flow rate, peak flow rate, and capacity per day

Sizing 95MTS Systems

Continued

- Analysis should test for the following
 - When sizing for continuous flow rate, at least 30 psi should be left for working pressure
 - When sizing for peak flow rate, at least 20 psi should be left for working pressure
 - Some fixtures require specific pressure requirements more than 20 psi
 - Always conform to plumbing codes
- Other Checks
 - Available space
 - Doorways
 - Backwash Rates
 - Special Requirements
 - i.e. Residential quality soft water (1-2 gpg) is fine for most commercial applications. Some applications may require higher quality water down to 3 ppm hardness leakage.

Sizing Example – 40 Room Hotel

Location – Regina, Avg. Water Hardness 20 gpg



Fixture Count	
Hotel Rooms	40
Toilets	40
Sinks	40
Showers	40
Public Washrooms	2
Water Closet (Flush Tank)	3
Urinal (3/4" valve)	1
Sink	2
Utility Room	1
Service Sink	1
Laundry Machine #16	1

Determine Peak Flow

Location – Regina, Water Hardness 20 gpg

Fixture Count	
Hotel Rooms	40
Toilets	40
Sinks	40
Showers	40
Public Washrooms	2
Water Closet (Flush Tank)	3
Urinal (3/4" valve)	1
Sink	2
Utility Room	1
Service Sink	1
Laundry Machine #16	1

Quotation#										
Customer										
Date										
Fixture	Occupancy	Type	Cold Value	Hot Value	Total Value	QTY Cold Only	QTY Hot Only	QTY BOTH	Total Value	
Water Closet	Public	Flush Valve	10.00		10.00				0.00	
Water Closet	Public	Flush Tank	5.00		5.00			3.00	15.00	
Urinal	Public	1" Valve	10.00		10.00			1.00	10.00	
Urinal	Public	3/4" Valve	5.00		5.00				0.00	
Lavatory	Public	Faucet	1.50	1.50	2.00			2.00	4.00	
Bathtub	Public	Faucet	3.00	3.00	4.00				0.00	
Shower	Public	Mixing Valve	3.00	3.00	4.00				0.00	
Service Sink	Public	Faucet	2.25	2.25	3.00			1.00	3.00	
Kitchen Sink	Public	Faucet	3.00	3.00	4.00				0.00	
Drinking Fountain	Public	Valve	0.25		0.25				0.00	
Dish Machine	Machine	Valve		1.00	1.00				0.00	
Laundry Machine	Public	8#	2.25	2.25	3.00				0.00	
Laundry Machine	Public	16#	3.00	3.00	4.00			1.00	4.00	
Total										36.00
Fixture	Occupancy	Type	Cold Value	Hot Value	Total Value	QTY Cold Only	QTY Hot Only	QTY BOTH	Total Value	
Water Closet	Private	Flush Valve	6.00		6.00				0.00	
Water Closet	Private	Flush Tank	3.00		3.00	40.00			120.00	
Lavatory	Private	Faucet	0.75	0.75	1.00			40.00	40.00	
Bathtub	Private	Faucet	1.50	1.50	2.00				0.00	
Shower	Private	Mixing Valve	1.50	1.50	2.00			40.00	80.00	
Kitchen Sink	Private	Faucet	1.50	1.50	2.00				0.00	
Laundry Sink	Private	Faucet	2.25	2.25	3.00				0.00	
Dishwasher	Private	Automatic		1.00	1.00				0.00	
Clothes Washer	Private	8#	1.50	1.50	2.00				0.00	
Total										240.00
Grand Total										276.00
Peak Flow (Flush Tanks)										83.91

Confidential



Determine Capacity Required Per Day

Location – Regina - 40 Rooms

TYPE OF ESTABLISHMENT	GALLONS/DAY	TYPE OF ESTABLISHMENT	GALLONS/DAY
Airports (per passenger)	3 to 5	Motel with bath, toilet and kitchen (per bed space)	50
Apartments, Multi Family (per resident) 60	60	Motels with bed and toilet - no kitchen (per bed space)	40
Camps:		Parks:	
Construction, semipermanent (per worker)	50	Overnight with flush toilets (per camper)	25
Day with no meals served (per camper)	15	Trailers with individual bath units (per camper)	50
Resorts, day and night with limited plumbing (per camper)	50	Picnic Areas:	
Tourist with central bath and toilet facilities (per person)	35	With bath houses, showers and flush toilets (per picnicker)	20
Cottages with seasonal occupancy (per resident)	50	With toilet facilities only (gallon/picnicker)	10
Country Clubs (per non-resident member)	25	Restaurants with toilet facilities (per patron)	7 to 10
Dwellings:		Restaurants with bars and cocktail lounge (add per person)	2
Boarding houses (per boarder)	50	Schools:	
Luxury (per person)	100 to 150	Boarding (per person)	75 to 100
Multiple family apartments (per resident)	40	Day with cafeteria, gymnasium and showers (per pupil)	25
Rooming houses (per resident)	60	Day without cafeteria, gymnasium or shower (per pupil)	15
Single family (per resident)	50 to 75	Service stations (per vehicle)	10
Factories (gal per person per shift)	15 to 35	Stores (per toilet room)	400
Hotels with private baths (two persons/room)	60 to 80	Swimming pools (per swimmer)	10
Hotels without private baths (per person)	50	Theaters: Indoor or Drive-In (per auditorium seat/car space)	5
Hospitals (per bed)	250 to 400	Workers: Construction (per person/shift)	50
Laundries, self-service (gallons/washing/customer)	50	Workers: Office (per person/shift)	15

Daily Capacity Required = 40 Rooms X 80 GPD = 3,200 GPD

System Selection

There are three key variables to proper selection. 1. Continuous flow rate, 2. Peak flow rate, 3. Daily hardness removal capacity

EXAMPLE

CONTINUOUS FLOW RATE – ?? GPM

PEAK FLOW RATE – 84 GPM

DAILY WATER USAGE – 3,200 GALLONS

WATER HARDNESS – 20 GPG

DAILY HARDNESS REMOVAL – 64,000 GRAINS

PROCEDURE

- A. Choose the model in Column A that meets the continuous flow rate.
- B. Next choose the model in Column B that meets the peak flow rate.
- C. Next choose the model in Column C that meets the daily removal capacity.
- D. The model that is furthest down the list in Column A, B, or C is the correct selection.

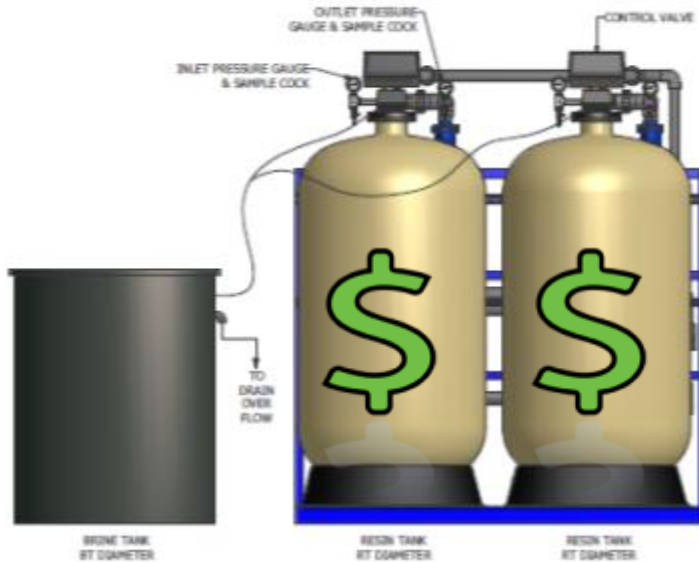
EXAMPLE

- 1. We don't know continuous flow rate.
- 2. Select model in Column B that equals 83 gpm or higher.
Answer – Choose TRIPLEX 500-3.
- 3. Select model in Column C that equals 64,800 grains or higher.
Answer – Choose TRIPLEX 500-3(CORRECT SIZE)

		COLUMN A	COLUMN B	COLUMN C
	System Size	Flow Rate @ 15 psi ΔP - GPM	Flow Rate @ 25 psi ΔP - GPM	Daily Removal Capacity - GRAINS
DUPLEX	200-2	20	25	192,000
	300-2	25	35	288,000
	400-2	27	38	384,000
	500-2	32	43	480,000
	600-2	31	42	576,000
	700-2	31	42	672,000
	800-2	32	44	768,000
	900-2	32	44	864,000
	1000-2	32	43	960,000
	TRIPLEX	200-3	40	50
300-3		50	70	432,000
400-3		54	76	576,000
500-3		64	86	720,000
600-3		62	84	864,000
700-3		62	84	1,008,000
800-3		64	88	1,152,000
900-3		64	88	1,296,000
1000-3		64	86	1,440,000
QUADPLEX		200-4	60	75
	300-4	75	105	576,000
	400-4	81	114	768,000
	500-4	96	129	960,000
	600-4	93	126	1,152,000
	700-4	93	126	1,344,000
	800-4	96	132	1,536,000
	900-4	96	132	1,728,000
	1000-4	96	129	1,920,000

Lower Capital Cost

From the previous example, a CW-FAF210 (two – 2" brass valves with two 2162 tanks) would normally get specified to meet the peak flow rate. The 95MTS-500-3 meets flow rate and capacity requirements and is 15% lower cost.



Large Tank System c/w Large Brass Valves

Retail \$15,580.00

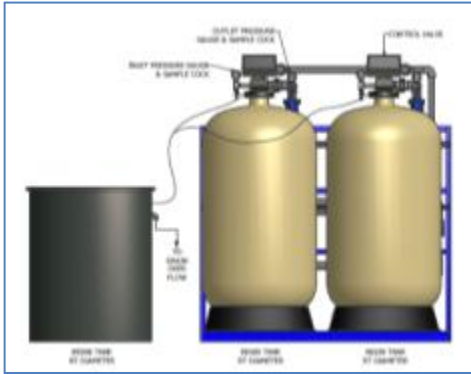


Canature Multiple Tank System
QUADPLEX 95MTS-500-3

Retail \$13,550.00

Lower Operating Cost

MTS systems bring you the latest in green innovations. Large brass valve and tank system designs have been around for 30 years and are NOT optimized for reduced regeneration water consumption. At equal salt dosages, MTS uses 27% less water!



CW-FAF 210

Position	Flow Rate (gpm)	Time (min)	TOTAL (gal)
Back Wash	10.0	10.0	100.0
Brine / Rinse	2.7	85.0	229.5
Rinse	10.0	10.0	100.0
Refill	2.0	18.0	36.0
Total			465.5
# CF Resin			7.0
Gallons Per CF Resin			66.5

95MTS-500-3

Position	Flow Rate (gpm)	Time (min)	TOTAL (gal)
Back Wash	8.0	9.0	72
Brine / Rinse	2.0	45.0	90.0
Rinse	8.0	9.0	72.0
Refill	0.9	11.0	9.9
Total			243,9
# CF Resin			5.0
Gallons Per CF Resin			48,8

Lower Operating Cost

The large brass valves and large tank systems are designed to operate at high inefficient salt dosages. MTS systems use the minimum regeneration water necessary and high efficiency salt settings resulting in water savings of 23% and salt savings of 38%.

Usage	
Water Usage Per Day (gal)	3,200
Hardness (gpg)	20
Hardness Removed Per Day (gpg)	64,000
Total Hardness Removed Per Year (gpg)	23,360,000

Salt Efficiency	
95MTS-500-3 (grains removed per lb salt per ft ³)	4,000
CAS210 (grains removed per lb salt per ft ³)	2,500

# Regens Per System	
95MTS-500-3 (grains removed per lb salt per ft ³)	195
CAS210 (grains removed per lb salt per ft ³)	133

Salt Used Per Year	
95MTS-500-3 (lbs)	5,840
CAS210 (lbs)	9,344
% Savings	37.5%

Regen Water Per Year	
95MTS-500-3 (gal)	47,580
CAS210 (gal)	62,138
% Savings	23,4%

Regen Water Savings	
Water Savings (gal)	14,558
Water Savings (cubic meter)	55,1
Cost per cubic meter	\$ 3.50
Annual Water Savings	\$ 192,85

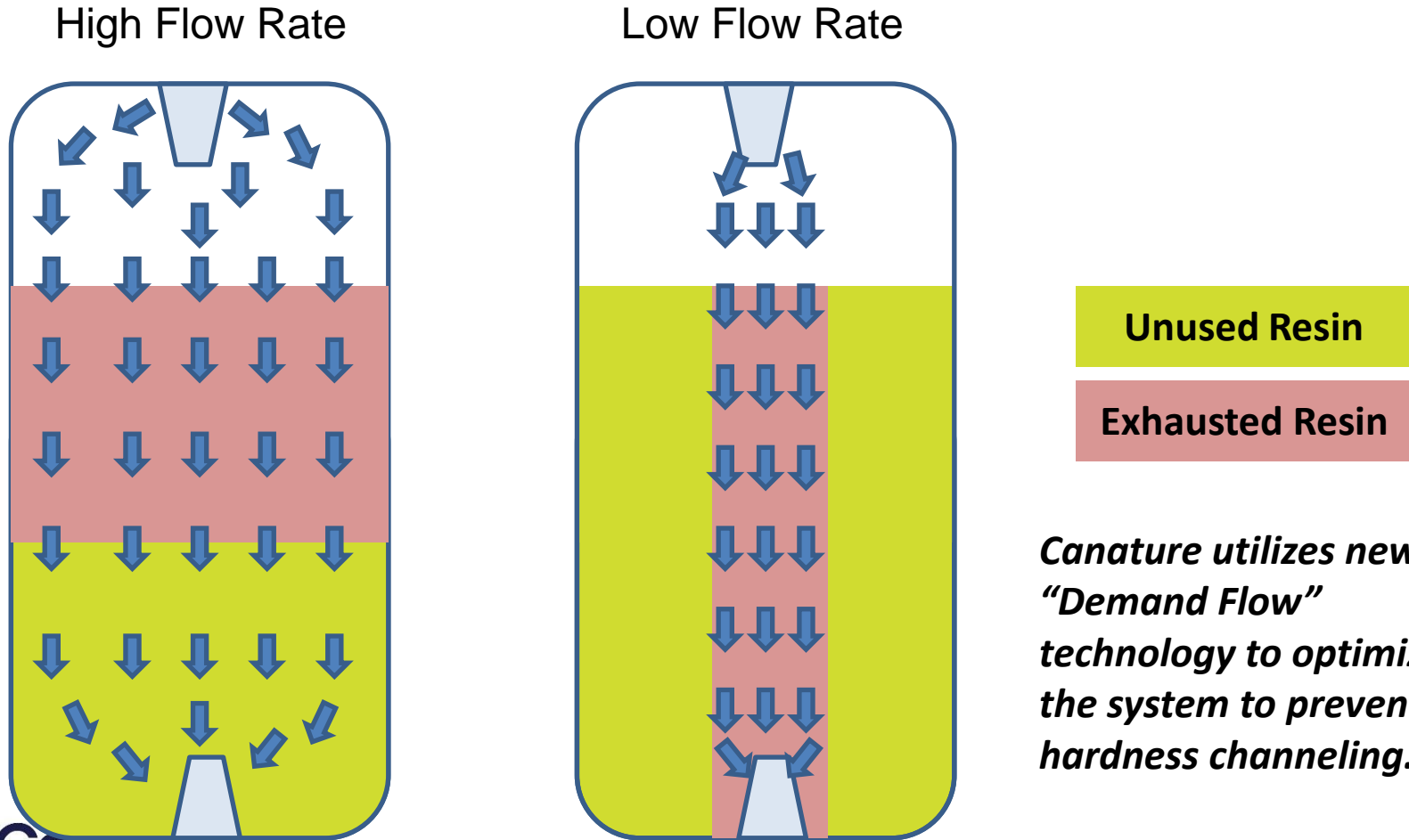
Salt Savings	
Salt Savings (lb)	3,504
Salt Cost (\$/lb)	\$ 0.27
Annual Salt Savings	\$ 946.08

Total Annual Savings	\$ 1,138,93
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Hardness Channelling

The most common failure of a commercial system is over sizing. During periods of low flow rate, channeling occurs because the flow is too low for the size of the softener tank causing water not to flow through the whole bed of the water softener tank resulting in hard water leakage.

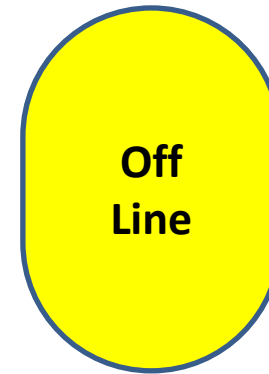
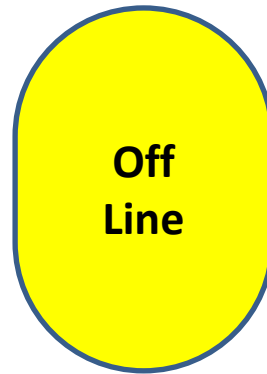
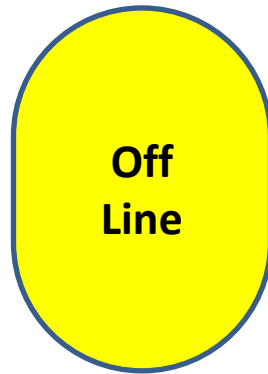


Canature utilizes new "Demand Flow" technology to optimize the system to prevent hardness channelling.

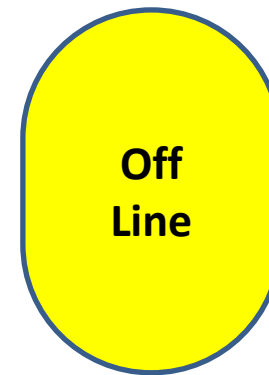
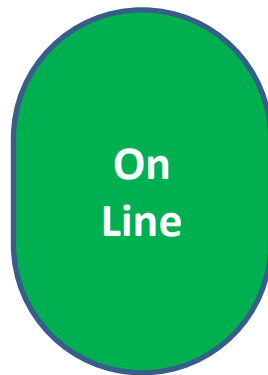
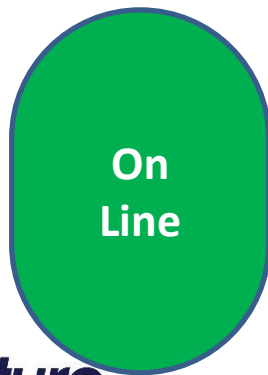
Demand Flow Technology

During periods of low flow rate, only one tank will be on line. When the flow rate demand increases, additional tanks will come on line to meet the demand. The systems are always sized so that one tank is always available for a regeneration.

Low Flow Rate Demand

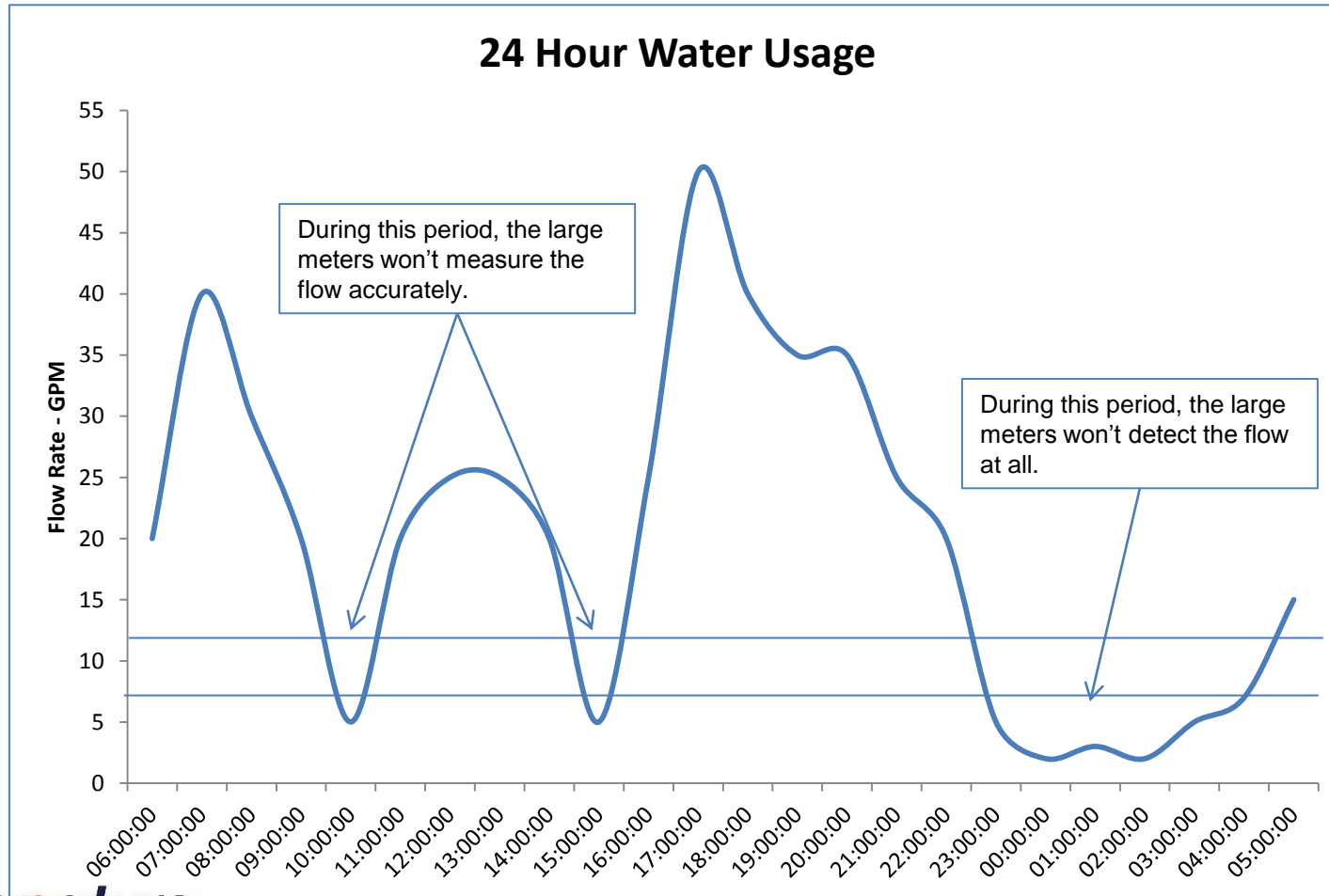


High Flow Rate Demand



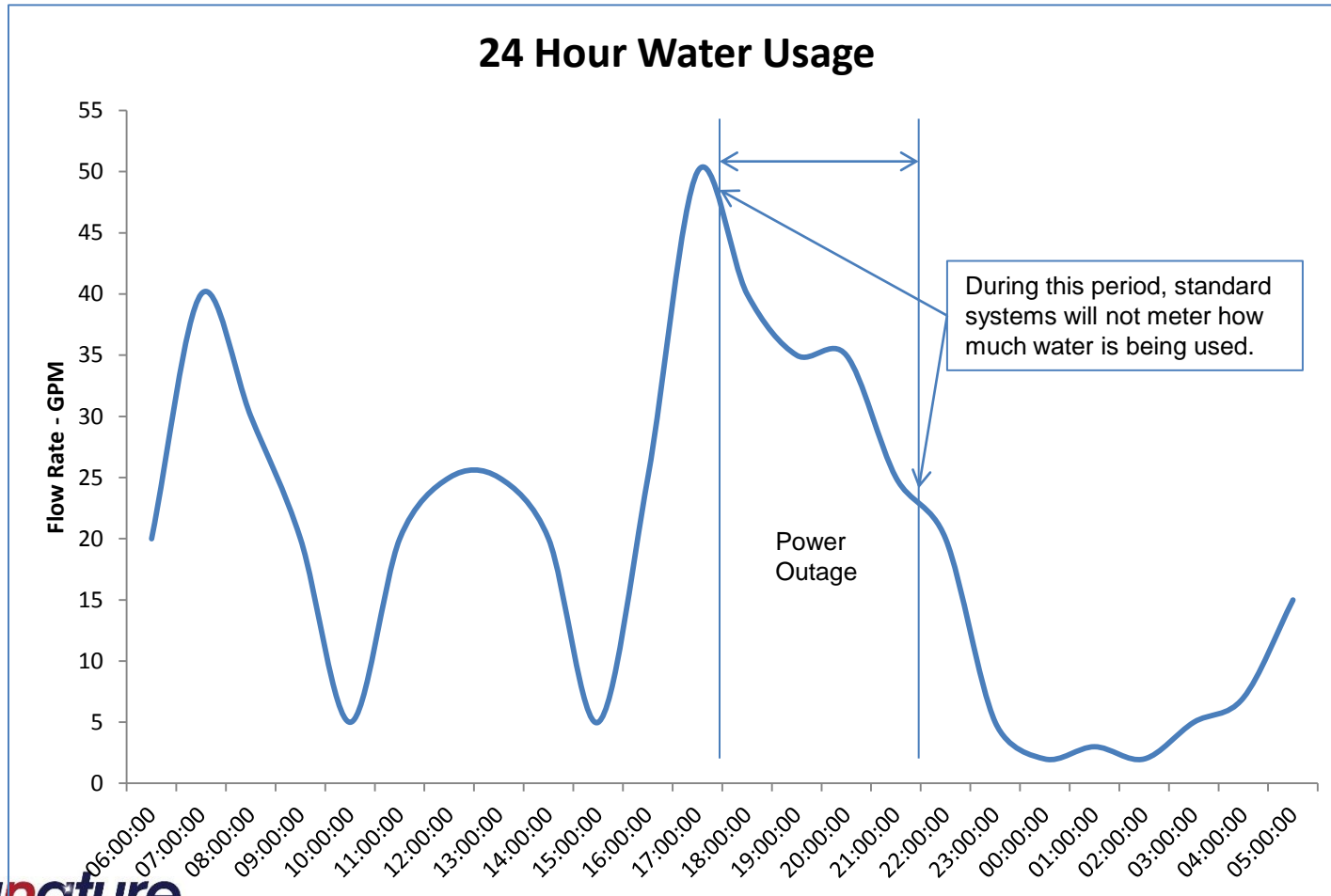
Accurate Flow Measurement

Large brass valves have large flow meters that can't detect low flow rates. MTS systems can detect flow rates as low as 0.5 gpm insuring all water passing through the system is accounted for to avoid early breakthrough of hardness through the bed.



Flow Measurement During Power Outage

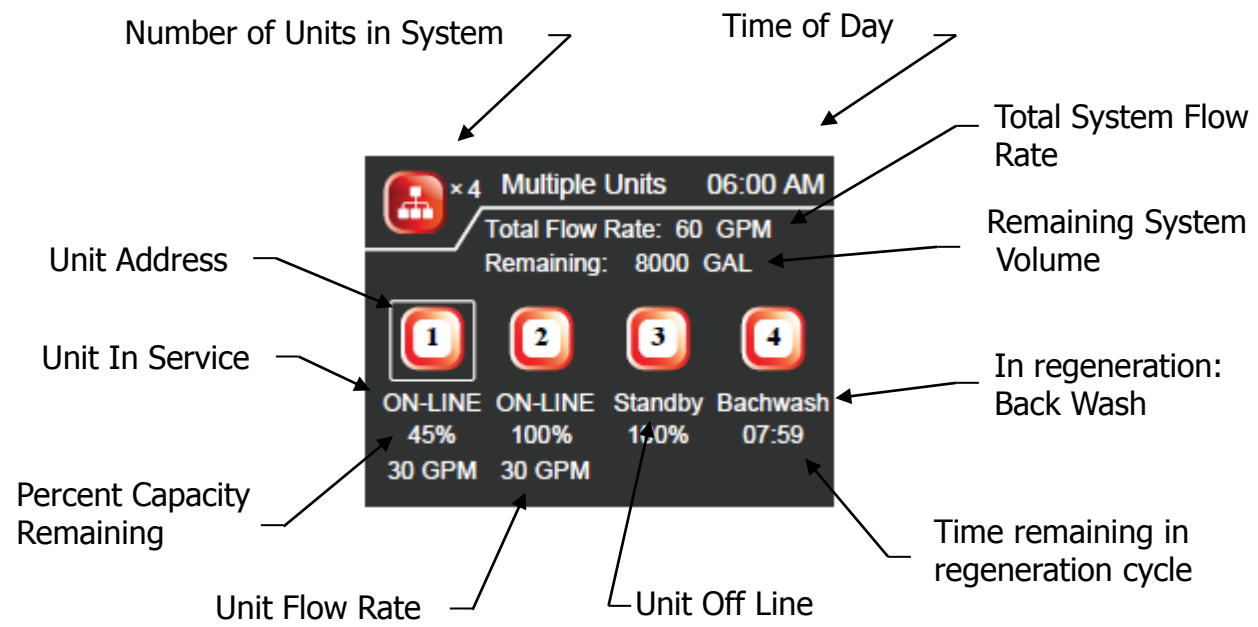
In a power outage, normal systems will continue to soften water but will not meter it. MTS systems can continue to track water used for up to 9 hours to insure the system will regenerate only when the bed is exhausted avoiding early hardness breakthrough..



MTS Controller Display

The MTS system display shows the current operation and status of the entire system with a large color display.

Main Page Display



Advanced Controls

The MTS controller can receive inputs to start or delay a regeneration based on a signal from a device such as a push button or an interlock signal from other equipment.

Remote Start

- A Remote Switch or button could be installed outside the control box so that a manual regeneration can be started from another location. i.e. Control Room

Pressure Drop Initiated Back Wash (Optional)

- Pressure switches can be used to initiate a back wash.

System Interlock

- A signal from other equipment can be accepted to prevent or delay the system from regenerating.

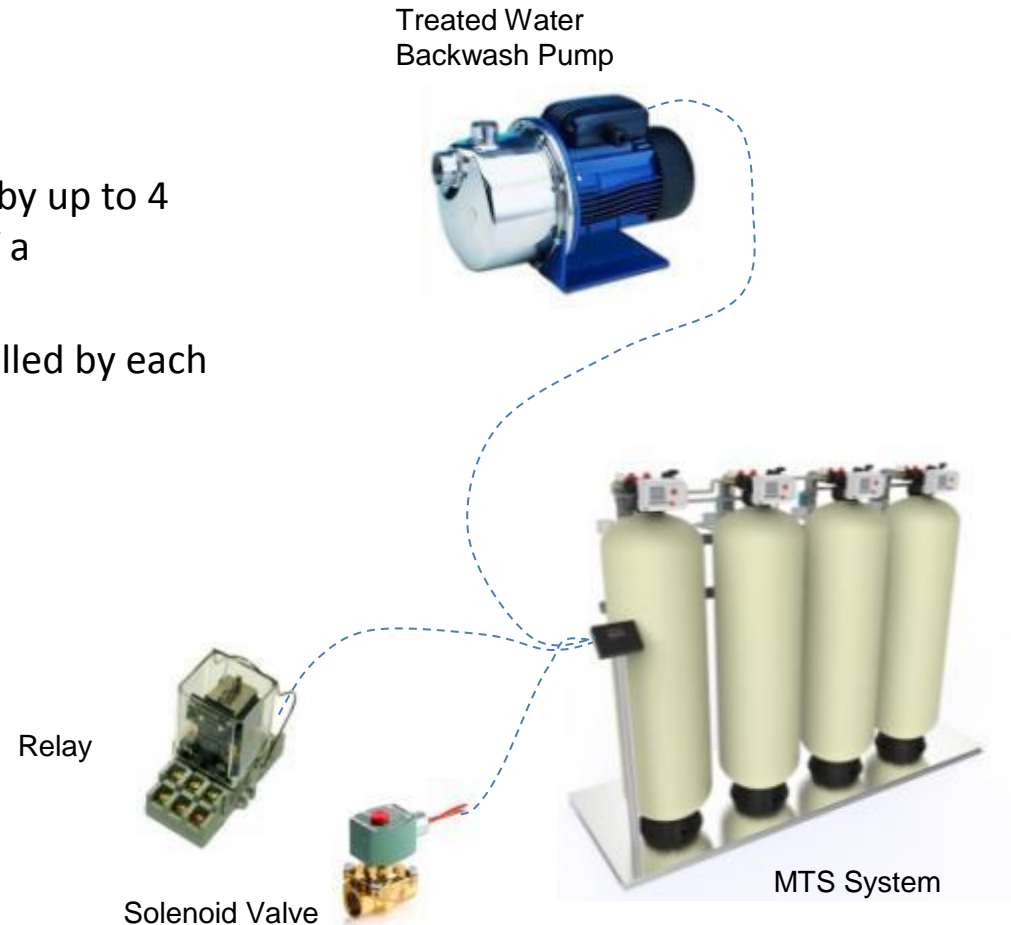


Advanced Controls

The MTS controller also has the capability to control other pieces of equipment. It has two separate and fully programmable auxiliary outputs to control other equipment such as solenoid valves, pumps, relays, etc.

(2) Auxiliary Outputs

- The output can be controlled by up to 4 steps beginning at the start of a regeneration
- The output can also be controlled by each cycle of the regeneration



MTS Filter Standard Features

There are three modes to initiate a regeneration or back wash. 1) Time Clock, 2) Meter Delay, or 3) Meter Immediate. Regenerations can also be scheduled on certain days of the week. Special periods can be blocked to prevent a regeneration to maintain peak flow rates.

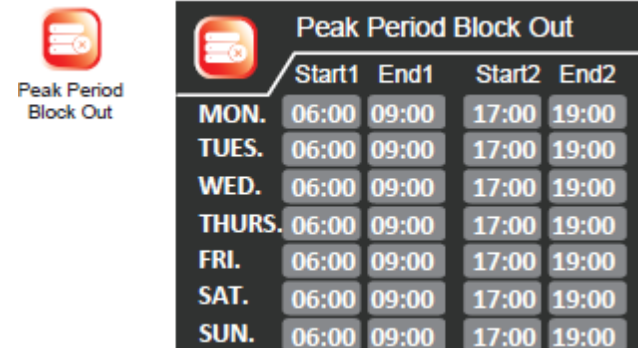
Regeneration Schedule

- In Time Clock mode, a back wash can be scheduled every X days or by certain days of the week.



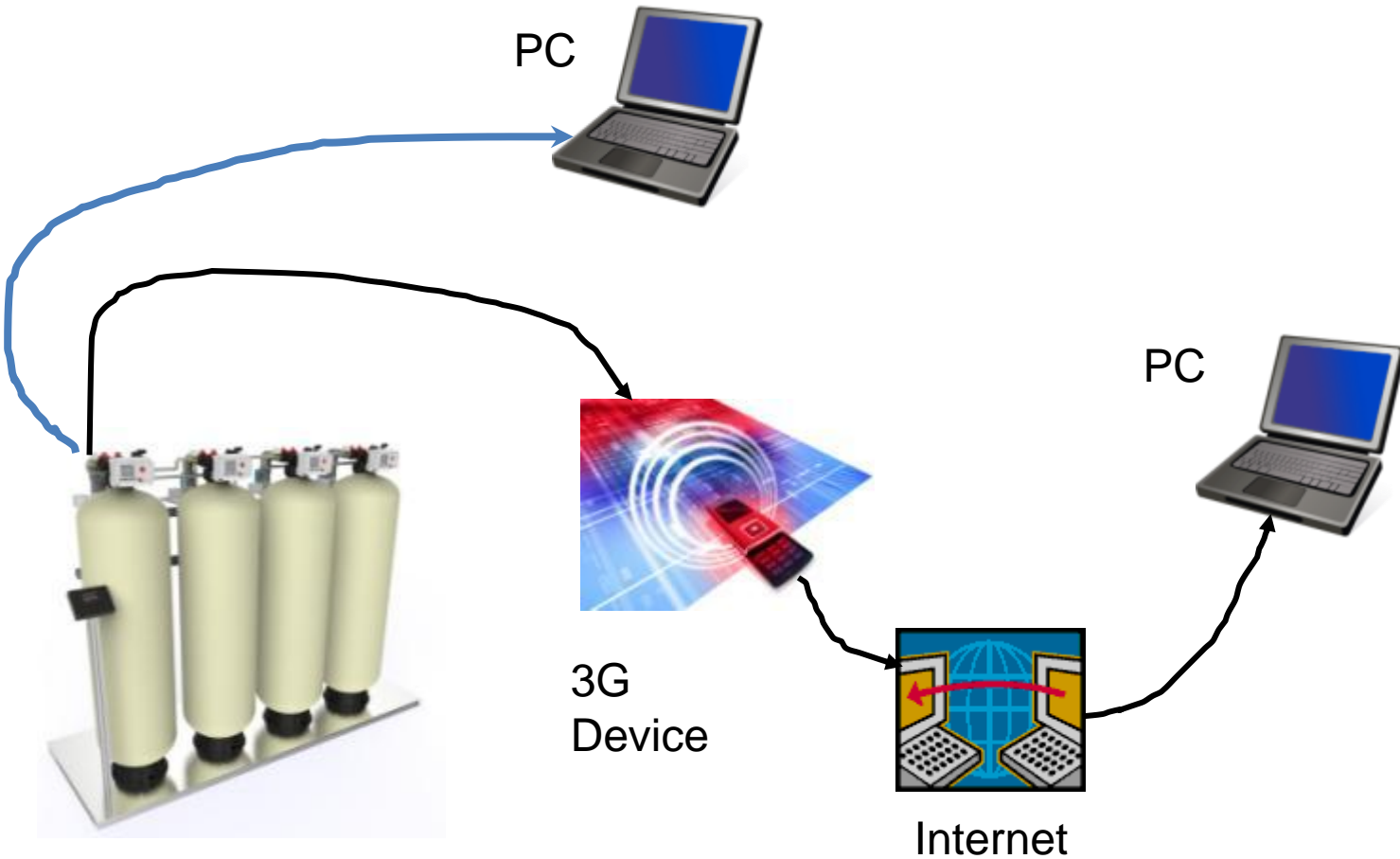
Peak Flow Delayed Regeneration

- Up to two periods per day can be blocked out so the system can preserve peak system flow rate.














Future Remote Monitoring Ready

MTS systems are "ready" to have an option to connect the Main controller to a PC or to the internet using a 3G communication device.



MTS Advantage Summary

Our systems have a lower capital investment, reduced water usage requirements, cost less to operate, and will operate to provide consistent high quality water.

Feature	MTS Systems	TRADITIONAL SYSTEM
Lower Capital Cost		
 GREENOVATION+		
High Efficiency / Low Operating Cost		
Eliminate "Hardness Channelling"		
Consistent High Quality Soft Water		

MTS300-2 Softener System



MTS400-4



MTS500-5 Carbon Filter



MTS500-4 Softener



MTS500-4 Greensand Filter Treated Water Backwash



MTS300- Duplex Softener



MTS1000- Quadplex Softener



