Water Softeners

Time Regeneration | Volumetric | Twin Volumetric

TEMAK®
TOTAL WATER SOLUTIONS

Time Controlled Regeneration Water Softeners

TS/255T, TS/278T and **TS/MGT** Series water softeners have a single vessel with time based regeneration system

TS/255T & TS/278T SERIES

Flow rate: 1,8 m³/h – 5,7 m³/h

Designed for residential and light commercial applications and controlled by fully automatic multi-port valve, with the option of adjustable regeneration.

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Automatic or manual activation of regeneration process
- Low running and maintenance cost
- Low maintenance & service cost
- Digital control system with waterproof touch screen
- Resin tank made of reinforced fiberglass
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Maximum Flow Rate (m³/h)	Basic Capacity (m³ x °F)	Resine Volume (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS015/255T	1,8	90	15	100	3/4" female	1/2" female	960	780	1260
TS030/255T	3,3	200	30	100	3/4" female	1/2" female	1040	780	1260
TS040/255T	3,3	260	40	150	3/4" female	1/2" female	1110	850	1750
TS060/255T	3,3	400	60	150	3/4" female	1/2" female	1160	850	1700
TS080/255T	3,3	600	80	200	3/4" female	1/2" female	1220	850	2050
TS100/278T	5,5	750	100	200	PVC Φ32	Nozzle for rubber ½"	1220	900	2050
TS120/278T	5,7	850	120	340	PVC Φ32	3/4" male	1590	1100	2050
TS150/278T	5,7	1050	150	340	PVC Φ32	3/4" male	1590	1100	2100
TS200/278T	5,7	1500	200	340	PVC Φ32	3/4" male	1590	1100	2100

ΣΕΙΡΑ TS/MGT

Flow rate: 12 m³/h - 19 m³/h

Designed for large flow rates, controlled by fully automatic multi-port valve, with the option of adjustable regeneration.

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Automatic or manual activation of regeneration process
- Low running and maintenance cost
- Resin tank made of reinforced fiberglass
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Maximum Flow Rate (m³/h)	Basic Capacity (m³ x °F)	Resine Volume (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS101/MGT	12 - 1,2	750	100	200	2" male	2" male	1310	900	2340
TS151/MGT	15 - 1,4	1050	150	340	2" male	2" male	1590	1100	2400
TS201/MGT	19 - 2	1500	200	340	2" male	2" male	1700	1140	2390
TS271/MGT	19 - 2	2060	275	460	2" male	2" male	1770	1140	2590
TS451/MGT	19 - 2	3400	450	920	2" male	2" male	2220	1435	2510
TS651/MGT	19 - 2	4900	650	920	2" male	2" male	2370	1435	2530

Time Controlled Regeneration Water Softeners

TS/255T & TS/278T SERIES OPERATION

Control Valve 255 with programmer 742

The user can monitor on the screen:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration or the regeneration cycle
- The days of operation since the last regeneration and the months of normal operation
- Number of regenerations since last maintenance

The start of regeneration can be done through remote signal.

Electrical supply: 12VAC (220V/12VAC transformer included)

Control Valve 278 with programmer 742

The user can monitor on the screen:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration or the regeneration cycle
- The days of operation since the last regeneration and the months of normal operation.
- The number of regenerations since last maintenance

The start of regeneration can be done through remote signal.

Electrical supply: 12VAC (220V/12VAC transformer included)

TS/MGT SERIES OPERATION

Magnum Control Valve

Fully adjustable valve which through an electronic board controls the time and day of regeneration start.
The start of regeneration can be done through remote signal.

Power supply: 12V AC (220V/12V AC transformer included)

Single Volume Controlled Regeneration Water Softeners

TS/255V, TS/278V and **TS/MGV** Series water softeners have a single vessel with volume based regeneration systems. The volumetric water softener control valve measures the volume of water that passes through the softener and initiates the regeneration, therefore, optimizing resin capacity and also water and salt use.

TS/255V & TS/278V SERIES

Flow rate: 1,8 m³/h – 5,7 m³/h

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Activation of time based or volumetric regeneration
- Low maintenance & service cost
- Digital control system with touch screen
- Resin tank made of reinforced fiberglass.
- An electromagnetic valve is included (normally open) 12V AC, 3/4" for TS/255V type and 1" for TS/278V type
- 220V/12V AC transformer included for valve operation
- A micro switch is installed at the control valve of the softener which closes the softener outlet at the time of regeneration
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Maximum Flow Rate (m³/h)	Basic Capacity (m³ x °F)	Resine Volume (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS015/255V	1,8	90	15	100	3/4'' female	1/2" female	960	780	1260
TS030/255V	3,3	200	30	100	3/4'' female	1/2" female	1040	780	1260
TS040/255V	3,3	260	40	150	3/4'' female	1/2" female	1110	850	1750
TS060/255V	3,3	400	60	150	3/4'' female	1/2" female	1160	850	1700
TS080/255V	3,3	600	80	200	3/4'' female	1/2" female	1220	850	2050
TS100/278V	5,5	750	100	200	PVC Φ32	Nozzle for rubber ½"	1220	900	2050
TS120/278V	5,7	850	120	340	PVC Φ32	3/4" male	1590	1100	2050
TS150/278V	5,7	1050	150	340	PVC Φ32	3/4" male	1590	1100	2100
TS200/278V	5,7	1500	200	340	PVC Φ32	3/4" male	1590	1100	2100

TS/MGV SERIES

Flow rate: Up to 19 m³/h

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Manual, time based or volumetric activation of regeneration.
- Low running and maintenance cost
- Sophisticated control system with digital, waterproof screen
- Resin tank made of reinforced fiber-glass
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Maximum Flow Rate (m³/h)	Basic Capacity (m³ x °F)	Resine Volume (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS101/MGV	12 - 1,2	750	100	200	2" male	2" male	1310	900	2340
TS151/MGV	15 - 1,4	1050	150	340	2" male	2" male	1590	1100	2400
TS201/MGV	19 - 2	1500	200	340	2" male	2" male	1700	1140	2390
TS271/MGV	19 - 2	2060	275	460	2" male	2" male	1770	1140	2590
TS451/MGV	19 - 2	3400	450	920	2" male	2" male	2220	1435	2510
TS651/MGV	19 - 2	4900	650	920	2" male	2" male	2370	1435	2530

Single Volume Controlled Regeneration Water Softeners

TS/255V & TS/278V SERIES OPERATION

Control Valve 255 with programmer 764

The user can monitor on the screen:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration or the regeneration cycle
- The amount of soft water remaining until regeneration
- Days remaining from last regeneration
- The current volumetric flow and peak flow
- The cubic meters of water since last regeneration
- Months of normal operation and the number of regenerations since last maintenance

Electrical supply: 12VAC (220V/12VAC transformer is included)
Optional: System regeneration can be stared remotely via a closed contact signal

Control Valve 278 with programmer 764

The user can monitor on the screen:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration or the regeneration cycle
- The amount of soft water remaining until regeneration
- Days remaining from last regeneration
- The current volumetric flow and peak flow
- The cubic meters of water since last regeneration
- Months of normal operation and the number of regenerations since last maintenance
- The average water consumption since last maintenance

Electrical supply: 12VAC (220V/12VAC transformer is included)
Optional: System regeneration can be stared remotely via a closed contact signal

SOFTENERS GENERAL APPLICATIONS

Sectors / Applications	Central Feed Water Supply	Boilers & Cooling Towers	Washing Machines	All Hot Water Uses	Autoclaves	Air Conditions	Dyeing Machines	Cleaning & Painting Bath
Buildings & residential	●							
Chemical Industry	●	●	●	●				
Food & Beverages	●	●	●	●				
Hospitals	●	●						
Hotels & Touring Villages	●							
Marine		●						
Metallurgy & Aluminium	●			●				●
Paper Industry		●						
Pharma & Cosmetics	●	●	●	●	●			
Reverse Osmosis	●							
Spin, Textile & Deying Houses	●	●				●	●	
Washing Stations	●		●					
Water Bottling		●	●	●				

Twin Volume Controlled Regeneration Water Softeners

Due to their twin-column design, Series **TS/255V/TWIN, TS/278V/TWIN** and **TS/MG/TWIN** water softeners are ideal for applications where uninterrupted flow of soft water is required. The system is volume controlled, the regeneration of the exhausted ion exchange resin bed is regulated by a built-in water meter and continuous supervision of the system is not required.

TS/255V/TWIN & TS/278V/TWIN SERIES

Παροχή: 1,8 m³/h – 5,7 m³/h

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Volumetric or manual activation of regeneration
- Low running and maintenance cost
- Sophisticated control system with digital, waterproof screen
- Continuous soft water production (best choice for tight spaces by avoiding soft water tank and water distribution systems)
- Maximum availability of soft water, each column works as a backup for the other (ex. in case of service)
- Resin tank made of reinforced fiberglass.
- Interconnection piping for the two columns included
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Flow Rate (m³/h)	Basic Capacity per column (m³ x °F)	Resine Volume per column (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS015/255V/TWIN	1,8	90	15	100	PVC 1'' male	Nozzle for rubber ½''	1370	780	1260
TS030/255V/TWIN	3,3	200	30	100	PVC 1'' male	Nozzle for rubber ½''	1530	780	1260
TS040/255V/TWIN	3,3	260	40	150	PVC 1'' male	Nozzle for rubber ½''	1670	850	1750
TS060/255V/TWIN	3,3	400	60	150	PVC 1'' male	Nozzle for rubber ½''	1770	850	1700
TS080/255V/TWIN	3,3	600	80	200	PVC 1'' male	Nozzle for rubber ½''	1900	850	2050
TS100/278V/TWIN	5,5	750	100	200	PVC 1 1/4'' male	Nozzle for rubber ½''	1900	900	2050
TS120/278V/TWIN	5,7	850	120	340	PVC 1 1/4'' male	3/4'' male	2500	1100	2050
TS150/278V/TWIN	5,7	1050	150	340	PVC 1 1/4'' male	3/4'' male	2500	1100	2100
TS200/278V/TWIN	5,7	1500	200	340	PVC 1 1/4'' male	3/4'' male	2500	1100	2100

TS/MG/TWIN SERIES

Flow rate: 12 m³/h - 19 m³/h

General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Volumetric or manually activation of regeneration
- Low running and maintenance cost
- Sophisticated control system with digital, waterproof screen
- Resin tank made of reinforced fiberglass
- One brine tank common for both columns
- Maximum vessel pressure: 10 bar
- Maximum working pressure: 6 bar

Type	Flow Rate (m³/h)	Basic Capacity (m³ x °F)	Resine Volume (l)	Brine Tank Volume (l)	Inlet / Outlet	Drain	Required Space (mm)		
							Length	Width	Height
TS101/MGV	12 - 1,2	750	100	460	2'' male	2'' male	1970	1140	2340
TS151/MGV	15 - 1,4	1050	150	460	2'' male	2'' male	2120	1140	2400
TS201/MGV	19 - 2	1500	200	460	2'' male	2'' male	2250	1140	2390
TS271/MGV	19 - 2	2060	275	460	2'' male	2'' male	2390	1140	2590
TS451/MGV	19 - 2	3400	450	920	2'' male	2'' male	3000	1435	2510
TS651/MGV	19 - 2	4900	650	920	2'' male	2'' male	3310	1435	2530

Twin Volume Controlled Regeneration Water Softeners

TS/255V/TWIN & TS/278V/TWIN

Control Valve 255 with programmer 764

When one column is on operation the second is on hold. It is possible for the two columns to operate in parallel and their regeneration to take place at different times.

The user can monitor on the screen:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration and the regeneration cycle
- The amount of soft water remaining until regeneration
- Days from last regeneration
- The current volumetric flow and peak flow
- The cubic meters of water since last regeneration
- Months of normal operation and the number of regenerations since last maintenance
- The average water consumption per day of the week

Electrical supply: 12VAC (220V/12VAC transformer is included)

Control Valve 278 with programmer 764

When one column is on operation the second is on hold. It is possible for the two columns to operate in parallel and their regeneration to take place at different times.

Through the screen the user can watch:

- The regeneration stage of the softener
- The time remaining to complete the specific stage of regeneration and the regeneration cycle
- The amount of soft water remaining until regeneration
- Days from last regeneration
- The current volumetric flow and peak flow
- Months and the number of regenerations since last maintenance
- The average water consumption per day of the week

Electrical supply: 12VAC (220V/12VAC transformer included)

TS/MG/TWIN OPERATION

Magnum Control Valve

Fully adjustable control valve, with simple programming.
Unnecessary regenerations can be avoided. LCD screen, totalizer, diplays remaining volume of soft water, remaining time of an active cycle of a regeneration as well as whole regeneration process to be completed. One column in operation, the other stand by or both columns operating in parallel but regenerating at different times.

Power supply: 12 V AC (220 V / 12V AC transformer is included)

"Experts in Processing Water"

TEMAK®
TOTAL WATER SOLUTIONS

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