



# Water Softeners

Time Regeneration | Volumetric |  
Twin Volumetric



# Time Controlled Regeneration Water Softeners

ECB/FA5 @ TS/MGT Series water softeners have a single vessel with time based regeneration system.

## ECB/FA5 SERIES



### Flow rate: 1 m<sup>3</sup>/h - 4 m<sup>3</sup>/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 initiated regeneration process
- Low running and maintenance cost
- Resin tank made of reinforced fiberglass  
Upon request, it can be made of specially coated steel, completely anti-corrosive
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 3/4" male
- Drain free flow

Type	Flow rate (m <sup>3</sup> /h)	Basic Capacity (m <sup>3</sup> x °F)	Resin Volume (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
ECB 10	1.0	65	10	100	960	780	1260
ECB 15	1.8	90	15	100	960	780	1260
ECB 20	2.4	130	20	100	990	780	1260
ECB 25	3.0	160	25	100	1010	780	1260
ECB 30	3.3	200	30	100	1040	780	1260
ECB 40	3.5	260	40	150	1110	850	1750
ECB 50	3.5	350	50	150	1110	850	1750
ECB 60	4.0	400	60	150	1160	850	1700
ECB 80	4.0	600	80	200	1213	850	2050
ECB 100	4.0	750	100	200	1213	850	2050

## TS/MGT SERIES



### Flow rate: 12 m<sup>3</sup>/h - 19 m<sup>3</sup>/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 initiated regeneration process
- Low running and maintenance cost
- Resin tank made of reinforced fiber-glass
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 2" male
- Drain free flow

Type	Flow rate / ΔP (m <sup>3</sup> /h-bar)	Basic Capacity (m <sup>3</sup> x °F)	Resin Volume (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
TS 101	12 - 1.2	750	100	200	1310	900	2340
TS 151	15 - 1.4	1050	150	300	1590	1100	2400
TS 201	19 - 2	1500	200	460	1700	1140	2390
TS 271	19 - 2	2060	275	460	1770	1140	2590
TS 451	19 - 2	3400	450	920	2220	1435	2510
TS 651	19 - 2	4900	650	920	2370	1435	2530

# Time Controlled Regeneration Water Softeners

## ECB/FA5 SERIES OPERATION



### 541 Control Valve

Softener's 541 control valve incorporates a clock which has selection options for both the start time and number of days between regenerations.

**Power supply:** 230V/50Hz transformed into 24VAC

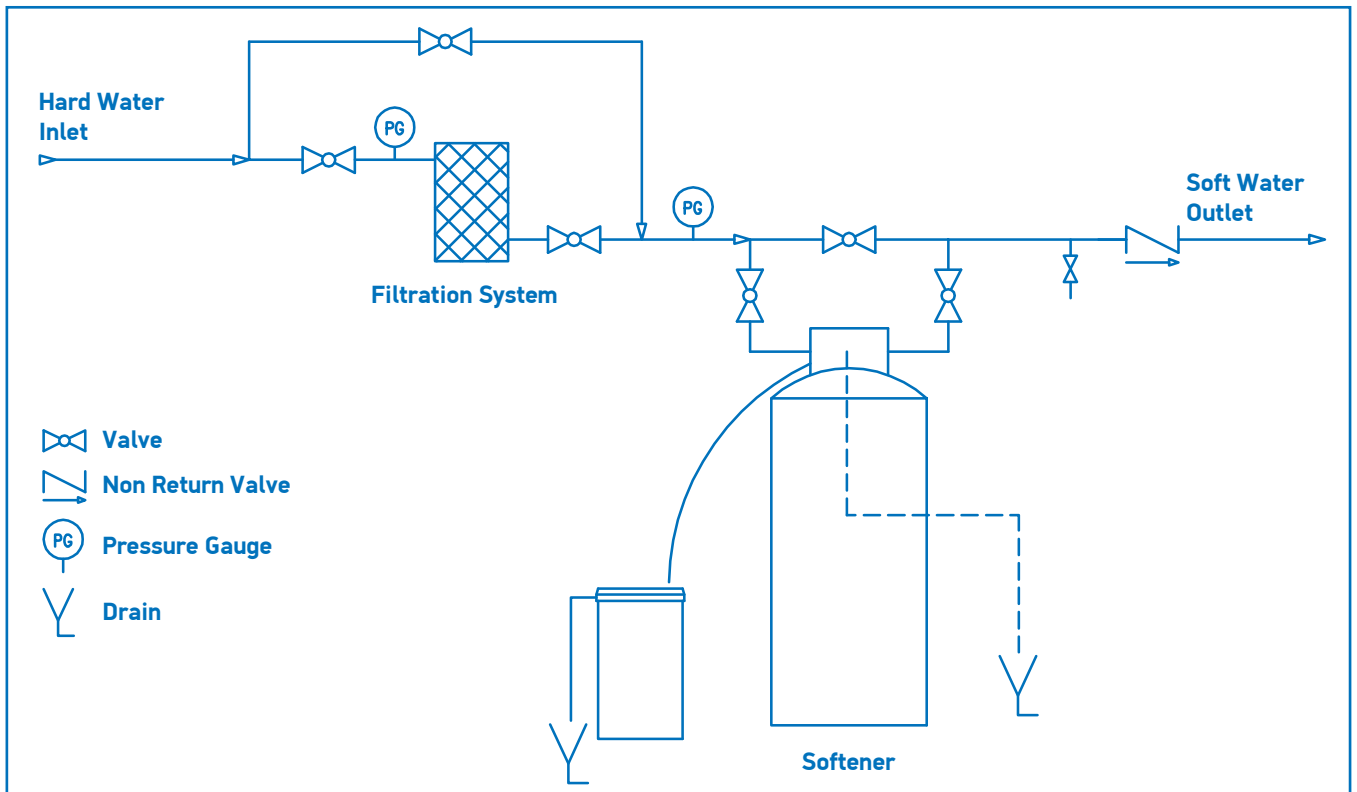
## TS/MGT SERIES OPERATION



### Magnum Control Valve

Fully adjustable time clock / demand control valve, with simple 3-step programming.

**Power supply:** 230V/50Hz transformed into 12VAC



# Single Volume Controlled Regeneration Water Softeners

**ECB/2001E** & **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.

## ECB/2001E SERIES



**Flow rate: 1 m<sup>3</sup>/h - 6 m<sup>3</sup>/h**

### General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Manual initiation, time based or volumetric regeneration
- Low running and maintenance cost
- Sophisticated control system with digital,

waterproof screen

- Resin tank made of reinforced fiberglass. Upon request it can be made of specially coated steel, completely anti-corrosive.
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 1" male
- Drain free flow

Type	Flow rate (m <sup>3</sup> /h)	Basic Capacity (m <sup>3</sup> x °F)	Resin Volume (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
ECB 10	1.0	65	10	100	960	780	1260
ECB 15	1.8	90	15	100	960	780	1260
ECB 20	2.4	130	20	100	990	780	1260
ECB 25	3.0	160	25	100	1010	780	1260
ECB 30	3.3	200	30	100	1040	780	1260
ECB 40	3.5	260	40	150	1110	850	1750
ECB 50	3.5	350	50	150	1110	850	1750
ECB 60	4.5	400	60	150	1110	850	1700
ECB 80	5.0	600	80	200	1110	850	2050
ECB 100	5.5	750	100	200	1110	850	2050
ECB 120	6.0	850	120	300	1110	1000	2040
ECB 150	6.0	1050	150	300	1110	1000	2090

## TS/MGV SERIES



**Flow rate: 12 m<sup>3</sup>/h - 19 m<sup>3</sup>/h**

### General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Manual initiation, time based or volumetric regeneration
- Low running and maintenance cost

- Sophisticated control system with digital, waterproof screen
- Resin tank made of reinforced fiber-glass
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 2" male
- Drain free flow

Type	Flow rate / ΔP (m <sup>3</sup> /h-bar)	Basic Capacity (m <sup>3</sup> x °F)	Resin Volume (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
TS 101	12 - 1.2	750	100	750	1310	900	2340
TS 151	15 - 1.4	1050	150	1050	1590	1100	2400
TS 201	19 - 2	1500	200	1500	1700	1140	2390
TS 271	19 - 2	2060	275	2060	1770	1140	2590
TS 451	19 - 2	3400	450	3400	2220	1435	2510
TS 651	19 - 2	4900	650	4900	2370	1435	2530

# Single Volume Controlled Regeneration Water Softeners

## ECB/2001E SERIES OPERATION



### 2400 Control Valve

Softener's regeneration valve that masters all softener's operation phases, through a computerized, microprocessor control programmable system so as unnecessary regenerations can be avoided.

**Via a display, the user can monitor the following:**

- Sequence of the regeneration cycles
- Remaining time of an active cycle of a regeneration process
- Remaining time of an active regeneration process to be completed
- Total number of regeneration processes performed by the system from first installation
- Elapsed time in days, from the last performed regeneration process
- Peak flow from last regeneration process till the time of readout

**Option:** Regeneration can be initiated from distance through a closed contact

**Power supply:** 230V/50Hz transformed into 24VAC

## TS/MGV SERIES OPERATION

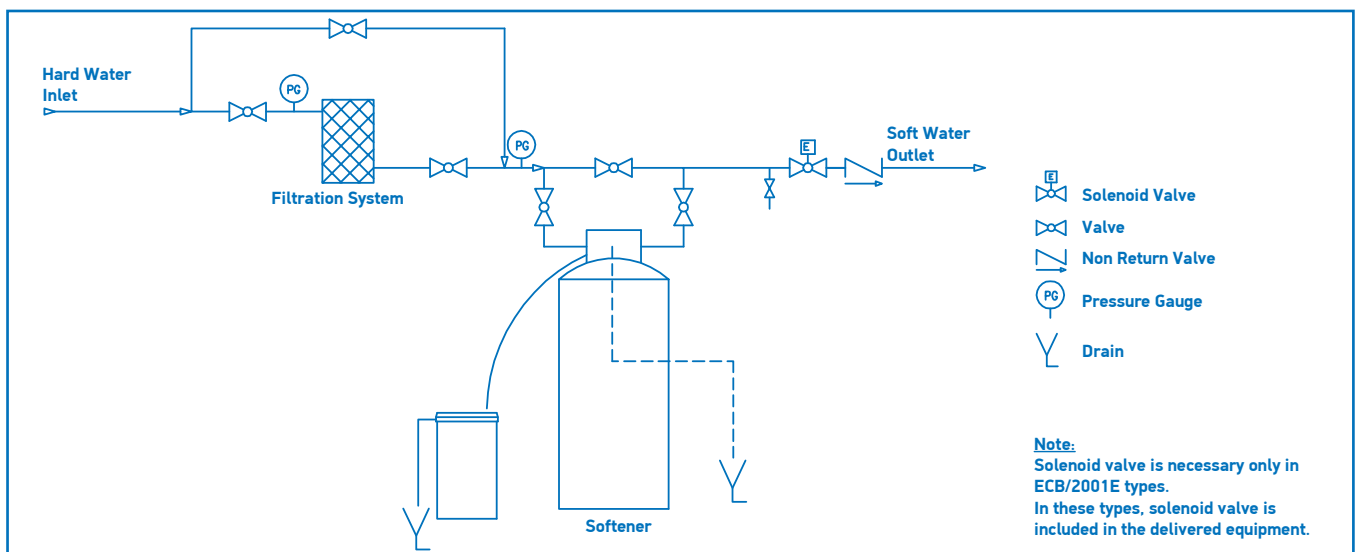


### Magnum Control Valve

Fully adjustable control valve, with simple programming. Unnecessary regenerations can be avoided.

LCD screen, totalizer, displays remaining volume of soft water, remaining time of an active cycle of a regeneration as well as whole regeneration process to be completed.

**Power supply:** 230V/50Hz transformed into 12VAC



# Twin Volume Controlled Regeneration Water Softeners

Due to their twin-column design, Series **ECB/2001E/TWIN** & **TS/MG/TWIN** water softeners are ideal for situations where uninterrupted flow of soft water is required. The system is volume controlled, the regeneration of the exhausted ionexchange resin bed is regulated by a built-in water meter and continuous supervision of the system is not required.

## ECB/2001E/TWIN SERIES



**Flow rate: 1 m<sup>3</sup>/h - 6 m<sup>3</sup>/h**

### General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Volumetric or manually initiated 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. Upon request it can be made of specially coated steel, completely anti-corrosive
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 1" male
- Drain free flow

Type	Max Flow rate (m <sup>3</sup> /h)	Basic Capacity per Column (m <sup>3</sup> x °F)	Resin Volume per Column (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
ECB 10 x 2	1.0	65	10	100 x 2	1620	780	1260
ECB 15 x 2	1.8	90	15	100 x 2	1620	780	1260
ECB 20 x 2	2.4	130	20	100 x 2	1670	780	1260
ECB 25 x 2	3.0	160	25	100 x 2	1730	780	1260
ECB 30 x 2	3.3	200	30	100 x 2	1780	780	1260
ECB 40 x 2	3.5	260	40	150 x 2	1920	850	1750
ECB 50 x 2	3.5	350	50	150 x 2	1920	850	1750
ECB 60 x 2	4.5	400	60	150 x 2	2020	850	1700
ECB 80 x 2	5.0	600	80	200 x 2	2130	850	2050
ECB 100 x 2	5.5	750	100	200 x 2	2240	850	2050
ECB 120 x 2	6.0	850	120	300 x 2	2530	1000	2040
ECB 150 x 2	6.0	1050	150	300 x 2	2680	1000	2090

## TS/MG/TWIN SERIES



**Flow rate: 12 m<sup>3</sup>/h - 19 m<sup>3</sup>/h**

### General features

- High performance, ergonomic design
- Fully automatic, user friendly, safe operation
- Volumetric or manually initiated regeneration
- Low running and maintenance cost
- Sophisticated control system with digital, waterproof screen
- Resin tank made of reinforced fiberglass
- One brine tank common to both columns
- Maximum working pressure: 6 bar
- Inlet - outlet connection: 2" male
- Drain free flow

Type	Max Flow / ΔP (m <sup>3</sup> /h-bar)	Basic Capacity per Column (m <sup>3</sup> x °F)	Resin Volume per Column (l)	Brine Tank Volume (l)	Required space (mm)		
					Length	Width	Height
TS 102 x 2	12 - 1.2	750	100	460	1970	1140	2340
TS 152 x 2	15 - 1.4	1050	150	460	2120	1140	2400
TS 202 x 2	19 - 2	1500	200	460	2250	1140	2390
TS 272 x 2	19 - 2	2060	275	460	2390	1140	2590
TS 452 x 2	19 - 2	3400	450	920	3000	1435	2510
TS 652 x 2	19 - 2	4900	650	920	3310	1435	2530

# Twin Volume Controlled Regeneration Water Softeners

## ECB/2001E/TWIN OPERATION



### 2400 Control Valve

Softener's regeneration valve that masters all softener's operation phases, through a computerized, microprocessor control programmable system. Automatic switching between two columns. One column in operation, the other stand by.

**Via a display, the user can monitor the following:**

- Sequence of the regeneration cycles
- Remaining time of an active cycle of a regeneration process
- Remaining time of an active regeneration process in order to be completed
- Total number of regeneration processes performed by the system from first installation
- Elapsed time in days, from the last performed regeneration process
- Peak flow since last regeneration process till the time of readout

**Power supply:** 230V/50Hz transformed into 24VAC

## TS/MG/TWIN OPERATION

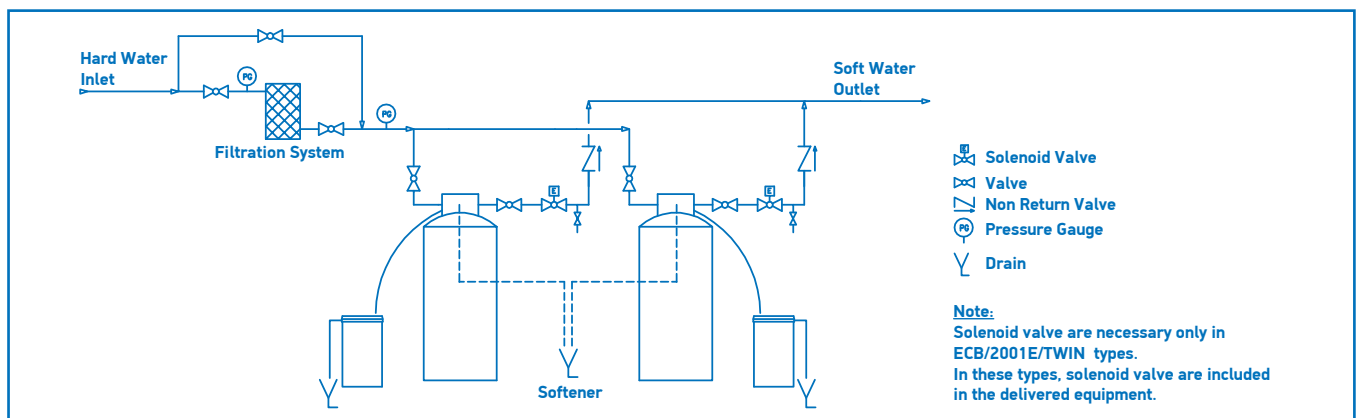


### Magnum Control Valve

Fully adjustable control valve, with simple programming.

Unnecessary regenerations can be avoided. LCD screen, totalizer, displays 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:** 230V/50Hz transformed into 12VAC



## 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 & Dyeing Houses		●	●				●	●	
Washing Stations		●		●					
Water Bottling			●	●	●				



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