

# Water Softeners

Removal of scale-forming hardness minerals



## CABINET - ECONOMY MODEL Autotrol Valve

## ECONOMICAL RESIDENTIAL AUTOMATIC CABINET STYLE WATER SOFTENERS FOR POTABLE & PROCESS WATERS

The principal hardness minerals, calcium and magnesium, accumulate as a white scale in piping, jugs, heat exchangers, water heaters, boilers and steam equipment. Removing the scale delivers better use of energy, lower running costs and maintenance, improved laundry and dishwashing and protection for water-contact appliances. The compact size of cabinet softeners make them ideal for apartments, laboratories, under bench installations or where space is limited.

### PROCESS

A softener 'exchanges' hardness ions for harmless sodium ions, leaving soft water. A special softener resin is the exchange medium and softener salt the regenerant. When the resin becomes laden with hardness ions the softener regenerates using a salt water solution, (sodium chloride + water). The intensity of the sodium introduced dislodges and displaces the hardness ions with sodium ions. The hardness and chloride ions are sent to the drain. When the process is complete the softener is regenerated and ready again to deliver soft water.

The softener cabinet acts as the storage tank for the salt and water (brine). All functions are fully automatic with only a periodic top-up of salt required.

**Microprocessor Demand:** This is the most efficient and popular softener control. It features an in-built water meter that monitors actual water flow and usage patterns and initiates a regeneration only when required. Saves salt, water and money.



360 VALVE



CABINET WITH OPTIONAL HIGH STYLE COVER SHOWN.  
CABINET & COVER MAY VARY SUBJECT TO AVAILABILITY

Uses safe 12 volt power from the wall-mounted transformer supplied.

| MODELS<br>MICROPROCESSOR | LITRES SOFT WATER BETWEEN<br>REGENERATIONS*,<br>INSTALLATION AREA (w x d x h cm) |                | FLOW<br>Litres/<br>minute | INLET/<br>OUTLET<br>mm | DRAIN<br>mm |
|--------------------------|--|----------------|---------------------------|------------------------|-------------|
| WTWSC7B                  | 9,660  | 35 x 60 x 1200 | 20.0                      | 20                     | 12          |
| WTWSC9B                  | 15,180   | 35 x 60 x 1200 | 30.0                      | 20                     | 12          |

Minimum inlet pressure 280 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use a switch kit & solenoid valve to provide back-pressure when softener is regenerating. Refer Dowdens for pricing. Regeneration figures based on 100mg/l hardness. Flow based on intermittent usage.

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## CABINET STYLE Clack Valve

### RESIDENTIAL AUTOMATIC CABINET STYLE WATER SOFTENERS FOR POTABLE & PROCESS WATERS

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#### PROCESS

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CLACK VALVE & CONTROL



#### VALVE AND CONTROL

The Clack Softener Valve features a versatile multi-function control that enables programming to either Timer or Water-Meter Demand Regeneration. Demand Regeneration is the most efficient and popular softening method. An in-built water meter monitors the actual water flow and usage patterns and initiates a regeneration only when required. This offers significant salt and water savings over timer regeneration softeners. The control includes a Coin Cell Lithium battery back-up with an 8 hour carry over to save day and time settings in event of blackout.

The control uses safe 12 volt power from the wall-mount transformer supplied.

| MODELS<br>AUTO DEMAND | LITRES SOFT WATER BETWEEN<br>REGENERATIONS*,<br>INSTALLATION AREA (w x d x h cm) |                | FLOW<br>Litres/minute | INLET/<br>OUTLET mm | DRAIN<br>mm |
|-----------------------|--|----------------|-----------------------|---------------------|-------------|
| <b>WTWSC7</b>         | 9,660  | 35 x 60 x 1200 | 20.0                  | 25                  | 12          |
| <b>WTWSC9</b>         | 15,180   | 35 x 60 x 1200 | 30.0                  | 25                  | 12          |
| <b>WTWSC10</b>        | 19,320   | 35 x 60 x 1200 | 38.0                  | 25                  | 12          |

Minimum inlet pressure 280 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use a switch kit & solenoid valve to provide back-pressure when softener is regenerating. Refer Dowdens for pricing. Regeneration figures based on 100mg/l hardness. Flow based on intermittent usage.



**BRISBANE**  
24 / 140 WECKER RD  
MANSFIELD Q 4121  
(07) 3828 7000

[brisbane@dowdens.com.au](mailto:brisbane@dowdens.com.au)

**MACKAY**  
9 - 15 INDUSTRIAL ST  
MACKAY Q 4740  
(07) 4969 4949

**PROSERPINE**  
4 PEPPER ST  
PROSERPINE Q 4800  
(07) 4969 4940

[www.dowdens.com.au](http://www.dowdens.com.au)

**ROCKHAMPTON**  
4 / 415 YAAMBA RD  
PARK AVENUE Q 4121  
(07) 4923 6969

**TOWNSVILLE**  
0437 772 162

# Water Softeners

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## CABINET MODELS Autotrol Valve

## RESIDENTIAL & LIGHT COMMERCIAL AUTOMATIC CABINET STYLE WATER SOFTENERS FOR POTABLE & PROCESS WATERS

The principal hardness minerals, calcium and magnesium, accumulate as a white scale in piping, jugs, heat exchangers, water heaters, boilers and steam equipment. Removing the scale delivers better use of energy, lower running costs and maintenance, improved laundry and dishwashing and protection for water-contact appliances. The compact size of cabinet softeners make them ideal for apartments, laboratories, under bench installations or where space is limited.

### PROCESS

A softener 'exchanges' hardness ions for harmless sodium ions, leaving soft water. A special softener resin is the exchange medium and softener salt the regenerant. When the resin becomes laden with hardness ions the softener regenerates using a salt water solution, (sodium chloride + water). The intensity of the sodium introduced dislodges and displaces the hardness ions with sodium ions. The hardness and chloride ions are sent to the drain. When the process is complete the softener is regenerated and ready again to deliver soft water.

The softener cabinet acts as the storage tank for the salt and water (brine). All functions are fully automatic with only a periodic top-up of salt required.



Valve & Control



### CONTROL OPTIONS:

**Timer:** The softener capacity is calculated from the water hardness and the quantity of softener resin used. Based on the calculated capacity and the estimated water usage, the softener is programmed to automatically regenerate on the required days.

**Microprocessor Demand:** This is the most efficient and popular softener control. It features an in-built water meter that monitors actual water flow and usage patterns and initiates a regeneration only when required. Saves salt, water and money compared to timer controlled softeners.

Both models use safe 12 volt power from the wall-mount transformer supplied.

| MODELS      |            | LITRES SOFT WATER BETWEEN REGENERATIONS*,<br>INSTALLATION AREA (w x d x h cm) |                | FLOW<br>Litres/minute | INLET/<br>OUTLET mm | DRAIN<br>mm |
|-------------|------------|---|----------------|-----------------------|---------------------|-------------|
| AUTO DEMAND | AUTO TIMER |   |                |                       |                     |             |
| WTWSC7M     | WTWSC7T    | 9,660   | 35 x 60 x 1200 | 20.0                  | 25                  | 12          |
| WTWSC9M     | WTWSC9T    | 15,180  | 35 x 60 x 1200 | 30.0                  | 25                  | 12          |
| WTWSC10M    | WTWSC10T   | 19,320  | 35 x 60 x 1200 | 38.0                  | 25                  | 12          |

Minimum inlet pressure 280 kpa. Maximum inlet pressure 600 kpa with no water hammer. For open discharge (e.g. tank filling), use a switch kit & solenoid valve to provide back-pressure when softener is regenerating. Refer Dowdens for pricing. Regeneration figures based on 100mg/l hardness. Flow based on intermittent usage.