

Water Softeners

Removal of scale-forming hardness minerals



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*, INSTALLATION AREA (w x d x h cm)		FLOW Litres/minute	INLET/ OUTLET mm	DRAIN 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.