

Water Softeners

Removal of scale-forming hardness minerals



CABINET STYLE Clack Valve

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.



CLACK VALVE & CONTROL



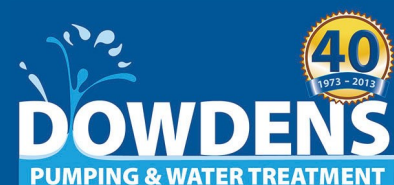
VALVE AND CONTROL

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 AUTO DEMAND	LITRES SOFT WATER BETWEEN REGENERATIONS*, INSTALLATION AREA (w x d x h cm)		FLOW Litres/minute	INLET/ OUTLET mm	DRAIN mm
WTWSC7	9,660	35 x 60 x 1200	20.0	25	12
WTWSC9	15,180	35 x 60 x 1200	30.0	25	12
WTWSC10	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.



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