ENVIROGEN
WATER TECHNOLOGIES

EcoSave

80% lower water consumption

50% lower salt consumption

Vastly improved water quality

PLC control for monitoring the Softener units including options

Water Saving Eco Friendly Water Softener

This series of volume-controlled Counter Current Water Softening plants are selected specifically for reliable and economical operation. The advantage of using volume controlled plants is that the resins are used to their full capacity before an automatic regeneration takes place. The systems are designed as fully automatic duty and standby units providing 100% duty 24 hours per day. The advantage of operating the softener units Counter Current, service and regeneration flows in opposing directions is that salt usage is minimised, water quality can be maintained between regenerations and water consumption can be reduced by up to 80% when compared with a conventional water softener.

Plant configuration can be flexible to suit the plant area available and the plant is controlled via an on board PLC where all plant functions can be monitored.

Options

Conductivity sensing during regeneration. By installing a conductivity meter to monitor the rinse stages water wastage can be reduced by 25-35 %. The conductivity meter will measure the rinse water quality and will halt the rinse cycle when the conductivity meter reads a pre set value, normally set at worst case inlet water quality.

Hardness Monitoring - To measure the quality of the soft water a Testomat can be installed. This can be set to trigger and alarm if the water hardness increases above a pre set value. In addition the read out on the monitor will indicate the hardness of the water in the display of the control panel.

Technical Specification

Quantity-controlled/Duplex	300	450	650	900	1200
Max. flow rate, m³/h*	10/15	18/21	25/30	32/39	41/50
Pressure loss at max flow, bar	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5
Capacity at 50ppm CaCO3, m³	300	446	652	906	1200
Capacity at 100ppm CaCO3, m³	151	223	327	453	600
Capacity at 200ppm CaCO3, m³	75	112	163	225	300
Capacity at 300ppm CaCO3, m³	50	75	110	150	200
Salt consumption per regeneration, kg.	24	36	52	72	96
Regeneration time, minutes	50	55	60	65	70
Temperature max, ºC	35	35	35	35	35
Water Pressure max., bar	10	10	10	10	10
Inlet connection, DN	50	50	50	100	100
Outlet connection, DN	50	50	50	100	100
Drain connection, DN	40	40	40	40	40
Plant height, mm	2520	2600	2800	2750	2800
Plant width, mm	2800	3000	3120	3550	4000
Plant depth, mm	1400	1500	1600	1800	1900
Salt tank height, mm	1550	1550	1550	1550	1550
Salt tank diameter, mm	1040	1040	1040	1040	1040
Content of salt tank, litres	1150	1150	1150	1150	1150
Consumption of water during regeneration, m³	0.8	1.1	1.6	2.2	3.0
Consumption of water during regeneration with conductivity meter, m³	0.5	0.7	1	1.4	1.9

*At 15ºC, 3.0 bar pressure, inlet softening plant (Regenerated state).
Electric - 230 volt, 50 Hz, 10 amps.
In certain instances the capacity indicated below may need to be reduced based on the total hardness, iron content and other contaminants.

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