

# EcoRange

## EcoSave Water Softeners



### Save up to 80% effluent water and 60% salt with EcoSave

The EcoSave is the most efficient water softener on the market. The compact, space-saving design provides a high flow of softened water for use in many industrial processes.

Softened water is essential to many industrial and manufacturing processes and it protects boilers, cooling towers, pipework and machinery from the damaging effects of scale. EcoSave is our most popular and efficient water softener and is part of our core EcoRange of water treatment products.

EcoSave is a compact system and provides a flow rate of up to 50m<sup>3</sup>/hr of process water at less than one ppm total hardness (larger bespoke models are available for higher flow rates). It does this with up to 60% less salt and 80% less effluent water than a conventional system.

The secret lies in its unique counter-current regeneration system and conductivity sensors. Together these technologies prevent over rinsing and waste in the regeneration stages.

EcoSave is an ultra-efficient water softener providing 24-hour operation with duplex configuration and delivers typical payback periods of between six to 18 months.

Options are available for water hardness alarms to adjust dosing according to water hardness changes.



## Features and Benefits

- Pre-packaged, skid-mounted system minimises installation, commissioning and start-up time
- Up to 80% reduction in wastewater up to 60% reduction in salt costs.
- Improved water quality of less than 1ppm total hardness
- Typical payback within six to 18 months.
- A proven route to meet environmental targets.
- 24-hour operation with duplex configuration.
- Fully automatic operation requiring minimal operator involvement.
- PLC controller with colour, touch screen HMI for easy system programming.
- Service friendly design (minimal down time) with network of after sales service and support engineers.
- Remote service monitoring options.

## Technical Specification

Quantity Controlled / Duplex	400	600	900	1200	1550
Max flow rate m <sup>3</sup> /h*	10/15	18/21	25/30	32/39	41/50
Min flow rate m <sup>3</sup> /h*	0.08	0.35	0.35	3.0	3.0
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 50mg/l CaCO <sub>3</sub> , m <sup>3</sup>	400	600	900	1200	1550
Capacity at 100mg/l CaCO <sub>3</sub> , m <sup>3</sup>	200	300	450	600	775
Capacity at 200mg/l CaCO <sub>3</sub> , m <sup>3</sup>	100	150	225	300	387
Capacity at 300mg/l CaCO <sub>3</sub> , m <sup>3</sup>	67	100	150	200	258
Salt consumption per regeneration kg	31	48	72	94	124
Regeneration time minutes	50	55	60	65	70
Feed water temperature max °C	35	35	35	35	35
Inlet pressure max - bar	10	10	10	10	10
Pipe 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	1200	1200	1200	1200	1200
Salt tank diameter mm	1350	1350	1350	1350	1350
Content of salt tank in litres	1000	1000	1000	1000	1000
Consumption of water per regeneration m <sup>3</sup>	0.55	0.75	1.05	1.48	2.0

\* At 15°C and 3.0 bar pressure, softening plant inlet (regenerated state), Electrical requirements - 230 Volt, 50hz, 10 Amps. In certain instances the capacity indicated may need to be reduced based on total hardness, iron content and other contaminants.

### UK Headquarters

**Envirogen Group**  
Unit 9, Wimsey Way  
Alfreton Trading Estate  
Alfreton  
Derbyshire  
DE55 4LS  
T: +44 1773 441 029  
E: enquiries@envirogen.com

### The Netherlands Office

**Envirogen Technologies bv**  
Penningweg 71  
1507 DG Zaandam  
Netherlands  
T: +31 75 204 7200  
E: ninfo@envirogen.com

### Germany (Sales)

T: +49 234 6220 9001  
E: info.de@envirogen.com

### Italy (Sales)

T: +39 029 39 591  
E: info.it@envirogen.com

### North American Headquarters

**Envirogen Technologies Inc**  
2627 Chestnut Ridge Rd.,  
Suite 260  
Kingwood, TX 77339  
T: 877.312.8950  
E: info@envirogen.com