



ECORANGE

ECODI TWO BED DEIONISER

DATA SHEET



The Envirogen EcoDI range covers flow rates from 0.3 to 14 m³/hr, delivering purified water at less than 5µS/cm and 30µS/cm conductivity.

EcoDI is our most advanced deioniser and covers flow rates from 0.3 to 14 m³/h and is ideal for a range of uses including boiler feed, power and energy generation and pharmaceutical, food and beverage, electronics and automotive manufacturing applications.

The EcoDI is a two-bed deioniser using advanced technology to deliver extremely low conductivity water streams. The standard range will typically remove up to 98% of influent total dissolved solids, delivering purified water at less than 30µS/cm conductivity. For more demanding applications, our high performance option uses counter-current technology to deliver purified water as low as 5 micro siemens per centimetre (µS/cm) which also provides greater chemical efficiency and less wastewater.

Compact and skid-mounted, EcoDI is fast and easy to install, eliminating complex design stages and reducing start-up times.

FEATURES AND BENEFITS

- Pre-packaged, skid-mounted system minimises installation, commissioning and start-up time
- Cost-effective design with efficient chemical usage to provide competitive capital and running costs
- < 5µS/cm option with Counter-flow regeneration providing high chemical efficiency
- Fully automatic operation requiring minimal operator involvement
- Feed conductivity monitoring to set batch volumes to maximize throughput and ensure optimum regeneration sequences
- PLC controller with colour, touch screen HMI for easy system programming
- Service friendly design (minimal down time)
- Effluent capture and self-neutralization system option
- Nationwide network of after sales service and support ensures that your water systems are maintained in optimal operational condition efficiency therefore reducing operating costs
- Remote service monitoring option

TECHNICAL SPECIFICATION

EcoDI Standard Range		500	1000	1500	2000	3000	4000	6000	8000	10000
Typical output quality	µS/cm	30	30	30	30	30	30	30	30	30
Maximum service flow	m³/h	0.6	1.2	1.6	2.2	3.6	4.6	7.4	10	14
Minimum service flow	m³/h	0.3	0.3	0.3	0.4	0.7	0.9	1.5	2.0	2.8
Regeneration time	hours	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
HCl (30%)/regeneration	litres	3.8	7.5	10	13.8	22.5	28.8	46.3	62.5	87.5
NaOH (30%)/regeneration	litres	4.7	8.4	12.8	18.7	25.7	37.3	62.1	81.7	116.7
Output/regeneration at 100 mg/l total anion feed	m³	7.5	15.0	20	27.5	45	57.5	92.5	125	175
Output/regeneration at 200 mg/l total anion feed	m³	3.8	7.5	10	13.8	22.5	28.8	46.3	62.5	87.5
Width	mm	920	1020	1020	1160	1350	1350	1450	1900	2100
Depth	mm	400	460	460	460	550	550	700	800	950
Height	mm	1620	1620	1620	1620	1950	1950	1900	1900	2250

EcoDI+ (High Performance) Range		500X	1000X	1500X	2000X	3000X	4000X	6000X	8000X	10000X
Typical output quality	µS/cm	5	5	5	5	5	5	5	5	5
Maximum service flow	m³/h	0.6	1.4	2.2	3.4	4.0	5.0	7.4	9.4	13.2
Minimum service flow	m³/h	0.3	0.3	0.3	0.4	0.6	0.6	0.8	1.1	1.5
Regeneration time	hours	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
HCl (32%)/regeneration	litres	2.2	5.2	8.0	11.6	14.5	18.1	26.8	33.9	47.8
NaOH (30%)/regeneration	litres	3.0	7.1	10.9	15.8	19.7	24.7	36.5	46.2	65.1
Output/regeneration at 100 mg/l total anion feed	m³	7.5	18.0	27.5	40.0	50.0	62.5	92.5	117.0	165.0
Output/regeneration at 200 mg/l total anion feed	m³	3.8	9.0	13.8	20.0	25.0	31.3	46.3	58.5	82.5
Width	mm	920	1020	1020	1160	1250	1300	1450	1580	1700
Depth	mm	400	460	460	460	500	550	600	700	800
Height	mm	1620	1620	1620	1620	1950	1950	1900	1900	2100

Common to Both Ranges		500	1000	1500	2000	3000	4000	6000	8000	10000
Inlet & outlet connection	inch BSP	1" or solvent welded						1¼"		1½"
Drain connection		¾" hosetail								1" BSP
Regenerant connection	inch	¾" hosetail								½" hosetail

Feed Water Supply Quality

Potable water free from organic contamination, chlorine and suspended solids. Supply Pressure: 2-6 Bar. Temperature: min. 5°C / max. 30°C

ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- World class manufacturing and servicing capability



UK HEADQUARTERS

Envirogen Group
Unit 9, Wimsey Way, Alfreton Trading Estate
Alfreton, Derbyshire, DE55 4LS
T: +44 (0) 1773 441029
E: enquiries@envirogen.com

EUROPEAN HEADQUARTERS

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

NORTH AMERICAN HEADQUARTERS

Envirogen Technologies
2627 Chestnut Ridge Road, Suite 200
Kingwood, TX 7733
T: 713.979.9142
E: info@envirogen.com

We have a network of regional sales and service teams worldwide:

UK and Europe: UK, The Netherlands, Germany, France, Italy.

USA: Texas, Tennessee, New Jersey, California, Nevada.

For further details, visit our website or contact our main office locations above.

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