

EcoRange

EcoDI two bed deioniser



Envirogen Group's EcoDI range covers flow rates from 0.3 to 14 m³/hr, delivering purified water at less than 5µS/cm and 20µS/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 high pressure boiler feed, power and energy generation and pharmaceutical, food and beverage, electronics and automotive manufacturing applications.



The EcoDI is a two-bed deioniser uses 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 20µS/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	m ³ /h	0.6	1.2	1.6	2.2	3.6	4.6	7.4	10.0	14.0
Minimum service flow	m ³ /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	10.0	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	m ³	7.5	15.0	20.0	27.5	45.0	57.5	92.5	125.0	175.0
Output/regeneration at @ 200 mg/l total anion feed	m ³	3.8	7.5	10.0	13.8	22.5	28.8	46.3	62.5	87.5
Width	mm	920	1,020	1,020	1,160	1,350	1,350	1,450	1,900	2,100
Depth	mm	400	460	460	460	550	550	700	800	950
Height	mm	1,620	1,620	1,620	1,620	1,950	1,950	1,900	1,900	2,250

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	m ³ /h	0.6	1.4	2.2	3.4	4.0	5.0	7.4	9.4	13.2
Minimum service flow	m ³ /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 @ 100mg/l total anion feed	m ³	7.5	18.0	27.5	40.0	50.0	62.5	92.5	117.0	165.0
Output/regeneration @ 200mg/l total anion feed	m ³	3.8	9.0	13.8	20.0	25.0	31.3	46.3	58.5	82.5
Width	mm	920	1,020	1,020	1,160	1,250	1,300	1,450	1,580	1,700
Depth	mm	400	460	460	460	500	550	600	700	800
Height	mm	1,620	1,620	1,620	1,620	1,950	1,950	1,900	1,900	2,100

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	inches	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

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