

# Eco MultiPro

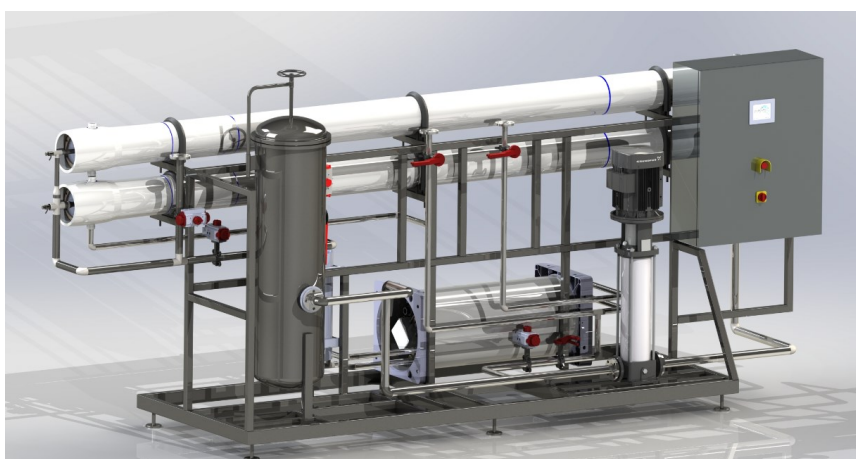
## RO EDI Water Treatment Plant



*The Eco MultiPro, from Envirogen Group, is a skid-mounted reverse osmosis and electrodeionisation water treatment system that delivers high purity water, with low operating costs, chemical free operation and a compact design to save space.*

This multi-technology packaged solution is designed to provide continuous supplies of high-purity water, using a three-stage, chemical-free process, including combined RO technology followed by degas membrane contactors for CO<sub>2</sub> removal, and EDI system treatment.

Eco MultiPro has been developed for use where high purity water and low dissolved ion levels are required for flow rates of up to 15 m<sup>3</sup>/h. Applications include ultrapure water generation for steam turbines and high pressure boilers, microelectronics production, general industrial needs, and pharmaceutical rinse water.



*Eco MultiPro RO-EDI plant, featuring reverse osmosis membranes, CO<sub>2</sub> degas membranes and electrodeionisation VNX modules*

## Features and Benefits

- Multi-technology design with high flow rate and small plant footprint
- Continuous operation with chemical free generation of ultra-pure water
- High efficiency, low energy RO membranes with water recovery rates of up to 98%
- Bespoke EDI controller to ensure EDI stack is monitored and operated effectively
- Degas membrane contactors for CO<sub>2</sub> removal
- PLC & HMI control system for intelligent monitoring and operational status indicators
- HMI has secure login to prevent accidental or unauthorised access
- Alarms for plant protection and historical diagnosis
- Remote monitoring via web/GPRS and alarms via email/SMS (trend curves remotely accessible)
- Built with high quality components and instrumentation package
- Skid mounted system for straight-forward integration, installation and commissioning
- Chemical free with low operating costs and total cost of ownership
- Service and maintenance with access to a network of nationwide after-sales support teams

## Additional options

- ABS/PVC/Polypropylene or Stainless Steel pipework
- Process specific instrumentation

## Technical Specification

Eco MultiPro - Flowrate Model		5	10	15
Nominal Permeate Performance*	m <sup>3</sup> /h	5	10	15
Rejection Rate (Nom)**	%	96-98		
System Inlet Pressure (Min/Max)	Bar	2.5-6		
Ambient Temperature	°C	5 - 35		
RO Membrane	Num	7	11	15
Degasser Membrane Contactor	Num	1	2	3
EDI Module	Num	1	1	1
Feed Water Inlet (Flange)	DN	32	50	65
Permeate Outlet (Flange)	DN	32		
Permeate Divert (Flange)	DN	32		
EDI Concentrate Out (Flange)	DN	25		
CIP Concentrate Out (Flange)	DN	40		
Length	mm	4758		
Width	mm	1255		
Height	mm	1871		
Weight (Dry) (approx.)	Kg	1100	1265	1370
Electrical Supply	V/ph/Hz	415/3+N/50		
Fuse Rating	A	40	50	63
Power Consumption	kW / A	25 / 37	30 / 44	41 / 60
Protection Class	IP	54		

\* For water quality of 10°C, 3.0 Bar. TDS ≤ 500mg/l ± 15%, SDI ≤ 3.0, oxidants ≤ 0.5 mg/l.

\*\* Based on water quality of TDS ≤ 500 mg/l, with softening as a pre-treatment.

### 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