

# ECO Di-on-x Automatic De-ionisers

**ADEPT**  
Pure Water Limited



ADEPT Pure Water Ltd is proud to introduce the ECO Di-on-x Automatic Water Deioniser System. This is a no frills, quick and easy to install system which is capable of being modified to meet flow specifications to suit client demands.

This System is a real economical alternative in comparison to the I-on-x Exchange Water Deioniser Cylinders or when Water Softeners & Reverse Osmosis systems cannot be incorporated in the treatment process.

Depending on the water production usage and quality of deionised water the process requires, the Automatic ECO Di-on-x Water Deioniser can lower the production cost of Deionised water by as much as one-half when compared with the running costs expected with a typical exchange cylinder system.

Features built into the Automatic ECO Di-on-x Water Deioniser include:

- Simplified design for low running and maintenance costs
- Quick & Easy to Install
- Semi-Automatic Operation Available
- Structural Skid Mounted Vessels
- Hard Wearing and Efficient Ion Exchange Resins
- Water Boost Pump
- Variable Weight Flow Meter indicates the flow running through the system at all times
- Automatic shut-off of Water Flow to Service or Quality Rinse in case of power failure
- Check valves to prevent the accidental flow of water into the regenerates' chemical containers
- Hcl Carboy Fume Scrubber and two sets of Chemical Draw Tubes supplied as part of the system
- PLC based Control System with HMI
- 24 VDC Control Circuits
- ABS manifolds pre-installed already to start production
- 2.5 Hr Regeneration Cycle
- Flow Rates from 300-4,000 Ltrs/Hr Available
- Feed Water Tank (Optional)

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## Standard Flow Rate Options for the Di-on-x Systems

Flow Rates	Pressures		Quality		Chemicals*		Effluent
Max Ltrs/Hr	Min Psi/Bar	Max Psi/Bar	Accept uS/CM	Reject uS/CM	Hcl (32%) Ltrs	NaOH (32%) Ltrs	Total Ltrs
300	30/1.9	90/6.3	20.00	25.00	2	3	620
800	30/1.9	90/6.3	20.00	25.00	8	9	620
1,000	30/1.9	90/6.3	20.00	25.00	12	14	620
1,500	30/1.9	90/6.3	20.00	25.00	14	18	700
2,000	30/1.9	90/6.3	20.00	25.00	16	20	750
2,500	30/1.9	90/6.3	20.00	25.00	18	22	900
4,000	30/1.9	90/6.3	20.00	25.00	28	34	1,250

\* The listed chemical usages and effluent discharges are subject to site conditions and have been provided as an example only. These are normally adjusted during System Commissioning.

Please note if Low Silica levels are required we suggest that water is polished further using one of our Exchange Cylinders in the I-on-x Range.

**For Higher Flow and Quality requirements we are also able to supply the Di-on-x range of Water Deionisers**

For further details and specification please contact us via one of the options below.



ADEPT Pure Water Ltd reserves the right to alter any specifications as required in pursuit of continuing development and improvement.

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