

# APPLIED IONICS

## RO / EDI SYSTEMS FOR HIGH PURITY WATER CHEMICAL FREE DEIONISATION



AIRE500—500 LPH SYSTEM

APPLIED IONICS REVERSE OSMOSIS / ELECTRODEIONISATION SYSTEMS CAN BE CONFIGURED TO SUIT ALL YOUR HIGH PURITY WATER NEEDS.

- FREE STANDING UNITS
- INTEGRATED RO / EDI SYSTEM
- RETROFITS AND UPGRADES TO EXISTING SYSTEMS

USING RO/EDI TO UPGRADE ION EXCHANGE WILL PROVIDE IMMEDIATE BENEFITS IN REDUCED OPERATING COSTS, REDUCED CHEMICAL STORAGE AND DISPOSAL.

- NO HAZARDOUS CHEMICAL STORAGE
- NO NEUTALISATION
- CONTINUOUS OPERATION
- CONSISTANT HIGH QUALITY WATER
- PRE-ENGINEERED SKID MOUNTED UNIT

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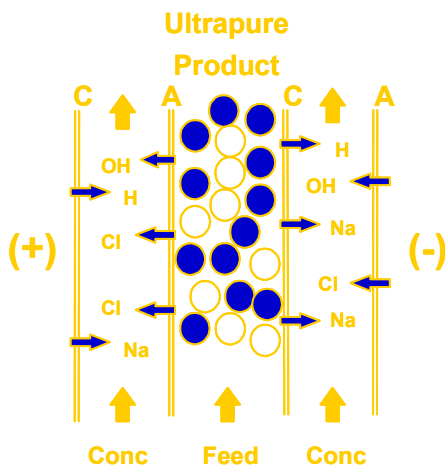
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## COMBINED RO/EDI SYSTEMS 150—4000 LPH

Model	AIRExxx								
xxx	250	500	750	1000	1250	1500	2000	3000	4000
Maximum service flowrate (l/hr)	250	500	750	1000	1250	1500	2000	3000	4000
Nominal Flowrate	100	300	300	700	700	700	1300	1400	2600
Install Space	Width (mm)								1500
	Height (mm)								1800
	Depth (mm)								800
	Inlet Connection								1.5"
Outlet Product	1"								1.5"
Drain line (concentrate)	1/2"								1"
Electrical supply	3 phase, 415V								
	Power (kW)	1.5	1.5	2.2	2.2	3.0	3.0	5.5	5.5

SANITARY SYSTEMS FOR PURIFIED WATER PRODUCTION TO USP, PH.Eur. AND SEMI-CONDUCTOR SPECIFICATION. COMMERCIAL SYSTEMS FOR HIGH PURITY WATER FOR ALL PROCESS REQUIREMENTS.

ELECTRODEIONISATION USES A COMBINATION OF ION SELECTIVE MEMBRANES AND ION EXCHANGE RESIN SANDWICHED BETWEEN TWO ELECTRODES. A DC CURRENT PASSED BETWEEN THE ELCTRODES WILL DRIVE DISSOLVED IONS TOWARDS THE ANODE OR CATHODE. BY ARRANGING THE ION SELECTIVE MEMBRANES IN ALTERNATING LAYERS TWO STREAMS ARE PRODUCED, AN ION DEPLETED DILUTE (PRODUCT) AND ION ENRICHED CONCENTRATE (REJECT)



ADAPTABLE SYSTEMS INTEGRATE WITH OTHER TECHNOLOGIES INTO SINGLE UNIT DESIGN

- LIQUI-CEL® GAS TRANSFER SYSTEMS
- ULTRAVIOLET STERILISATION
- ON LINE TOC MONITORING

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