ELGA PROCESS WATER

Duo Eclipse™

Deionisation Systems

Producing up to 4m³/hr of high quality water

Duo Eclipse™ two stage deionisers remove up to 98% of total dissolved solids and will typically produce water with a conductivity of less than 20 µs/cm.

Flow rates from 0.25 to 4 m³ /hr.

Features & Benefits

- Skid-mounted, standardised systems; short lead times, quick installation and start up
- Service orientated design provides ease of system access to minimise downtime and maximise on line usage
- Electronic control panel with indication lamps, conductivity monitor, manual override; simple to use, operational flexibility
- Conductivity controlled automatic regeneration; minimal operator involvement

Options

- Regenerant storage system with low level chemical switches, linked to Duo Eclipse™ control panel; minimises chemical handling, insufficient chemicals alarm
- Inlet cartridge filter; prevents particulate matter from entering resin beds
- Acid fume system for Carboy operation; reduces fumes to atmosphere

Applications

- Industrial process water
- Boiler feed
- Metal finishing

Related Services

Our AQUAservice maintenance agreements are designed to allow you to choose from our wide range of capabilities the level of support you require to meet your application, operational and budgetary needs.

VEOLIA WATER
Solutions & Technologies

Duo Eclipse™

System Performance:

Duo Eclipse Model		150	300	400
Maximum Treated Water Flow	m^3/hr	1.5	3.0	4.0
Minimum Treated Water Flow	m^3/hr	0.25	0.5	1.0
Maximum Operating Pressure	bar	6.0	6.0	6.0
Minimum Operating Pressure	bar	4.0	4.0	4.0
Pressure Loss at Maximum Flow	bar	1.6	2.8	3.0
Regeneration Time	hours	2.8	3.5	3.0
Maximum Flow to Drain	m^3/hr	2.0	2.8	4.0
Effluent Volume per Regeneration	m^3	1.0	1.6	2.0
Chemical Usage per Regeneration				
HCl (32% w/w)	Litres	10	20	35
HCl (28% w/w)	Litres	11	23	41
NaOH (30% w/w)	Litres	10	24	37.5
Output per Regeneration (100 mg/l Total Anion Load as $CaCo_3$ Inc. CO_2 & $Si0_2$)	m^3	25	60	100

System Dimensions, Weights & Connections

Duo Eclipse Model		150	300	400
Height	mm	1505	1965	2050
Depth	mm	670	670	670
Width (Excluding Regenerant Containers)	mm	870	1070	1300
Recommended Headroom	mm	1000	1000	1000
Recommended Rear Access	mm	1000	1000	1000
Approx. Service Weight	kg	480	835	950
Inlet	Inches	1	1	1
Outlet	Inches	1	1	1
Drain	Inches	1	1	1

Treated Water Quality

Model		150	300	4000
TDS	mg/l	<10	<10	<20
Conductivity	µS /cm	Maximum: <30 Average: <20		

Material Specifications

Pressure Vessels	Composite plastic
Pipework	ABS & uPVC
Skid	Epoxy Coated mild steel
Control Valves	Noryl plastic
Control Cabinet	IP54 enclosure

Feed Water Supply Quality
Potable water free from organic contamination, chlorine and suspected solids.
Temperature: min. 5°C max. 35°C

Electrical Supply
240V or 110V single phase, 50/60 Hz

For higher flow rate applications consult ELGA Process Water

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