

DUO ECLIPSE™ Deioniser

Deionisation Systems

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



Flow rates
from 0.25 to
4 m³/h



FEATURES & BENEFITS

- Skid-mounted, standardised systems; short lead-times, quick installation and start-up
- Electronic control panel with indication lamps, conductivity monitoring, manual override; simple to use, operational flexibility
- Automatic regeneration through conductivity control



APPLICATIONS

- Industrial process water
- Boiler feed water



OPTIONS

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

RELATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.





System Performance

Model		150	300	400
Flow Rates	m ³ /hr	0.25 - 1.5	0.5 - 3.0	1.0 - 4.0
Operating Pressures	bar	4.0 - 6.0	4.0 - 6.0	4.0 - 6.0
Pressure Loss at Max. Flow	bar	1.6	2.8	3.0
Regeneration Time (50 Hz Max.)	hours	2.3	3	3.0
Max. Flow to Drain	m ³ /hr	2.0	2.8	4.0
Effluent Volume per Regen. (Approx)	m ³	1.0	1.6	2.0
HCl (28% w/w) Usage per Regen.	l	11	23	41
NaOH (30% w/w) Usage per Regen.	l	10	24	37.5
Output per Regen. (100 mg/l Total Anion Load as CaCO ₃ Inc. CO ₂ & SiO ₂)	m ³	25	60	100

System Dimensions, Weights & Connections

Model		150	300	400
Height	mm	1505	1965	2050
Depth	mm	670	670	700
Width (Exc. Regen. Containers)	mm	870	1070	1250
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	400
TDS (Approx)	mg/l	<10	<10	<10
Conductivity	µS /cm	Maximum: <30 Average: <20		

Material Specifications

Pressure Vessels	Composite plastic
Pipework	ABS and 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 suspended solids.
Temperature: min. 5°C max. 35°C

Electrical Supply

240V or 110V single phase, 50/60 Hz.