

# EX Power Demin Plant



Excel Water Limited, Unit A7 Ledston Luck Enterprise Park, Leeds, LS25 7BF

Telephone: 0113232 0005

The EX Power Plants have been exclusively designed and manufactured in the UK by Excel Water to provide faster high-quality supply of deionised water to typically less than 2 Micro-Siemens.

This plant consists of an epoxy coated skid which supports two ply-glass vessels one containing a cation resin, the other an anion resin. The chemical resistant valves are used to control the service and regeneration flows.

Commercially available hydrochloric acid and sodium hydroxide is used to regenerate the resins when necessary.

The fully automatic unit is PLC controlled gives simple indication of plant status, with a clear digital display of water quality.



## Why choose the EX Power?

- High quality water to typically less than 2 Micro Siemens - No need for additional polishing - saving costs.
  - Short regen time, typically 20 minutes - less down time for production, save costs as no back up required & less storage required.
  - Neutral effluent - No hazardous waste to treat, saving cost.
  - High flow rates water on demand – Less storage required.
  - Compact size - Less footprint required, space saving.
  - PLC Controlled - More reliable and less maintenance costs, which can easily be modified for specific customer requirements.
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- Alarm functions - e.g. low raw water to protect the pump, low chemicals.
  - Robust design - Long lasting product.
  - Grundfos pump - High quality reliable product.
  - Compact resin beds- Higher quality, higher flow rate & fast regen times.
  - Designed and Manufactured by **Excel Water Ltd.**

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## Technical Table:

EX Power	EX300	EX500	EX1000
Optimum Flow Rate (m3/hr)	3	5	10
Max Flow Rate (m3/hr)	4	6.5	10.5
Capacity @100ppm T.A.L (m3)	24	32.5	45.8
Regeneration Time (mins)	30	30	30

Chemicals Used Per Regen	EX300	EX500	EX1000
Hydrochloric Acid @ 28% litres	13	15.2	23
Sodium Hydroxide @ 32% litres	12	14	25
Effluent Volume per regen (m3)	0.85	1.00	1.50
Maximum Effluent Flow (m3/hr)	3.2	4	5.9

Connections	EX300	EX500	EX1000
Inlet (PVC Union)	1 ¼"	1 ½"	1 ½"
Outlet (PVC Union)	1"	1 ¼"	1 ¼"
Min Drain Requirements (INS)	1 ¼"	1 ½"	1 ½"

Dimensions	EX300	EX500	EX1000
Height (mm)	1750	1750	1750
Width (mm)	1400	1400	1400
Depth (mm)	800	800	800
Delivered (Kgs)	1100	1200	1500
Working (kg)	1400	1550	1750
Electrical Supply per phase	3 Phase 6 Amp	3 Phase 8 Amp	3 Phase 10 Amp

