

APPLIED IONICS

SOFTENERS



Naturally occurring mineral salts in water can lead to the deposition of scale in boilers, pipework, heat exchangers and other equipment. Scale deposits increase friction, reduce energy efficiency and disguise corrosion.

Calcium and magnesium salts are the main causes of scale. The concentration of calcium and magnesium in the water supply is expressed as hardness. Water softening replaces the calcium and magnesium dissolved in the water with sodium, by the action of ion exchange.

Ion exchange softening provides a simple, efficient and cost effective solution for a wide range of users. softened water is used extensively in:

- Low pressure boilers and steam generation
- Food and beverage manufacture
- Washing and rinsing
- Humidifiers and air conditioning
- Cooling towers
- Pre-treatment systems for reverse osmosis and distillation

Softening systems are available as simplex, duplex and multiple vessel units depending on flowrate, application and duty.



SIMPLEX SOFTENERS

Model - Fleck Valves xxx	AISxxx/2750						
	50	60	80	120	140	250	350
Maximum service flowrate (m3/hr)	2	2.4	3.2	4.5	4.5	4.5	4.5
Service capacity @ 200 ppm (m3)	12.5	15	20	30	35	62.5	87.5
Vessel size	10 x 54	12 x 48	13 x 54	14 x 65	16 x 65	22 x 60	24 x 71
Resin Volume	50	60	80	120	140	250	350
Valve Type	2750	2750	2750	2750	2750	2750	2750
Brine tank	200	200	300	300	500	750	750
Brine Tank Dimensions	575 x 775		590 x 975		800x1110	950 x 1110	
Backwash Flowrate (lpm)	9.1	13.25	15.14	18.9	26.5	37.8	56.8
Regen. Water Usage litres	219	363	397	590	810	1734	2316
Inlet and Outlet Connections	1" BSPM						
Drain line	3/4"						
Power	240V-24V transformer, 50Hz						

Standard specifications:

- Multiport control valve for service and regeneration
- Glass fibre reinforced pressure vessels
- Medium density polyethylene brine tanks
- Simplex units supplied with timer or volumetric controller
- Multiplex units supplied with programmable microprocessor control
- Systems supplied and installed by Applied Ionics

Use simplex units for low flow applications with storage capacity. Duplex units are recommended for applications requiring continuous flow.

System Options

- Bypass valve for simplex systems
- Remote stop / start for duplex and larger units
- In-line hardness monitor
- Service / alarm relay outputs

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