

# 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.



## DUPLEX FLECK SOFTENERS

Model Fleck Valves Duplex xxx	AIS9500/xxx D						
	120	140	150	200	250	300	350
Nominal service flowrate (m3/hr)	4.8	5.6	6	8	8.4	8.4	8.4
Service capacity @ 200 ppm (m3)	30	35	37.5	50	62.5	75	87.5
Vessel size	14x65	16x65	16x65	22x60	22x60	24x71	24x71
Resin Volume	120	140	150	200	250	300	350
Valve Type	9500						
Brine tank	500			750			
Brine Tank Dimensions (mm)	800x1110			950x1110			
Backwash Flowrate	19	26.5	27	38	38	58	58
Regen. Water Useage	590	810	820	1703	1734	2301	2316
Inlet and Outlet Connections	1 1/2" BSPF						
Drain Line	3/8" (1600) 1/2" (1700) BSPF						
Power	240 - 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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