

# APPLIED IONICS

## WATER 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	AIS2900/xxx D							
	150	200	250	300	350	450	500	750
Nominal service flowrate (m3/hr)	6	8	10	12	14	18	19	19
Service capacity @ 200 ppm (m3)	37.5	50	62	75	87.5	112.5	125	187.5
Vessel size	16x65	22x60	22x60	24x71		30x72	30x72	36x72
Resin Volume	150	200	250	300	350	450	500	750
Valve Type	2900 + MICROPROCESSOR CONTROLLER							
Brine tank	500	750	750	1000	1000	1000 x 2		1750 x 2
Brine Tank Dimensions (mm)	800x1110	950x1110		1010x1315		1010x1315		1200x1520
Backwash Flowrate	27	38	38	57	57	85.5	95	132.5
Regen. Water Usage	818	1703	1734	2301	2316	3120	3467	4815
Inlet and Outlet Connections	2" BSPF							
Drain Line	3/4" 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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