

ELGA PROCESS WATER

IonSoft I

Water Softeners

Produce up to 17.5 m³/hr of softened water



The IonSoft I range of water softeners produce from 0.4 to 17.5 m³/hr of softened water for a variety of process and general manufacturing applications. The flexible design of the IonSoft softeners means that they can be configured to meet individual site requirements, thus providing a cost efficient, reliable and easy to use solution to the problems associated with hard water.

Features and Benefits

- Simple to program and operate; softener regeneration is automatically controlled and initiated
- The advanced control systems ensure that optimum performance is achieved from the softeners, thus minimising waste water
- Uniform bead size resin, gives peak regeneration efficiency and low salt usage
- The control head operates on low voltage (12/24V) to ensure safe installation, operation and maintenance
- Proven design and materials of construction ensures operational reliability
- Optional automatic valve prevents hard water to service during regeneration

Options

- Choice of systems; Simplex, Twin or Duplex units, tailored to customer requirements
- Choice of time clock or water meter operation

Related Services

- Our AQUAservice maintenance agreements are designed to allow you to choose from our wide range of capabilities the level of support you require to meet your application, operational and budgetary needs
- Our Premium Grade tablet salt is designed for all water softeners, and recommended for those supplied by ELGA Process Water. Our salt is manufactured using the latest techniques, and under the stringent quality control requirements of ISO9001:2000. Delivery is carried out by ELGA Process Water's dedicated vehicles and drivers to ensure an efficient, economical and trouble free service

IonSoft I

System Performance

IonSoft I Model		80	135	200	200+	250	350	500
Maximum Treated Water Flow - Simplex	m ³ /hr	3.5	5.0	5.5	10.0	12.5	17.5	17.5
- Duplex Parallel	m ³ /hr	7.0	10.0	11.0	20.0	25.0	35.0	35.0
Minimum Treated Water Flow	m ³ /hr	0.4	0.6	1.0	0.8	1.2	2.0	2.0
Regeneration Time (maximum)	mins	77	81	97	79	69	73	97
Maximum Flow to Drain	m ³ /hr	0.96	1.44	1.92	3.00	3.80	5.30	7.50
Effluent Volume	m ³	0.58	1.00	1.49	1.40	2.00	2.50	3.60
Pressure Loss at Maximum Flow	bar	0.5	0.9	1.4	1.1	1.3	1.7	1.6
Salt Usage Per Regeneration	kg	9.6	13.5	20.0	20.0	25.0	35.0	50.0

Volume of Softened Water Per Regeneration

IonSoft I Model		80	135	200	200+	250	350	500
Raw Water - Soft 100mg/l	m ³	40	68	100	100	125	175	250
Raw Water - Average 200mg/l	m ³	40	34	50	50	63	88	125
Raw Water - Hard 400mg/l	m ³	10	17	25	25	31	44	63

System Dimensions, Weights & Connections

IonSoft I Model		80	135	200	200+	250	350	500
System Height	mm	1575	1875	1820	2132	1980	2225	2385
System Width - Simplex	mm	1070	1150	1500	1500	1600	1750	2000
- Duplex	mm	1810	1890	2000	2000	2200	2400	2800
System Depth	mm	640	640	875	875	875	1100	1100
Recommended Headroom	mm	900	900	900	900	900	900	900
Approx. Shipping Weight - Simplex	kg	100	150	250	300	450	550	690
- Duplex	kg	180	275	450	540	820	1000	1240
Approx. Service weight - Simplex	kg	210	320	600	600	900	1100	1500
- Duplex	kg	360	550	1080	1080	1640	2000	2480
Inlet	inches	1	1	1	1½	2	2	2
Outlet	inches	1	1	1	1½	2	2	2
Drain	inches	¾	¾	¾	1½	1½	1½	1½
Salt Tank Overflow	inches	½	½	½	½	½	½	½

Treated Water Quality

IonSoft I	Hardness
	<5mg/l as CaCO ₂

Feed Water Supply Quality

Water free from Iron, suspended solids and <1pm, free Chlorine.
 Supply Pressure: min. 2 bar max. 6 bar
 Temperature: min. 5°C max. 30°C

Material Specifications

Pressure Vessels	Composite, HDPE & GRP
Resin	Uniform bead size
Control Valve	Glass reinforced ABS
Salt Tank	Polythylene

Electrical Supply

All models 240V single phase, 50Hz.

For higher flow rate applications consult ELGA Process Water

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