IONSOFT™ Mega

Industrial softeners

The IONSOFT™ Mega is a softener range based on ion Exchange resins technology that can be used for any industrial application. It is designed with upflow counter-current regeneration to optimize OPEX. It uses multiple individual valves to reduce pressure losses and ease maintenance.

• 4 Models

Flow rates from 3 to 80 m^3/h

Power

General Industry

FEATURES & BENEFITS

• Proven designs and materials; efficient operation, easy to maintain, reliable.
• Multiple individual valves: reduces pressure loss by almost 50% compared to single valve systems.
• Optimized usage of regeneration salt: upflow counter-current regeneration.
• Advanced controller with LCD display; range of control options, intuitive operation, integrates with centralized control systems.
• Continuous production: duty/ stand-by configuration

APPLICATIONS

• Reverse osmosis feed water pre-treatment (eg.before SIRION RO unit)
• Cooling towers
• Glass washing
• Cleaning and rinse water
• Laundry

HYDREX™ CHEMICALS

HydrexTM 7110 water treatment chemicals from Veolia Water Technologies and salt pellets should be used for optimized operation.

ASSOCIATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

System Operating Parameters

Model	Unit	AW2-550	AW2-800	AW2-1050	AW2-1400
Min Feed Flowrate	m³/h	2.7	3.9	5.1	6.8
Nominal Flowrate	m³/h	27	39	51	68
Nominal Capacity (1)	kg $CaCO_3$	27.5	40	52.5	70
Output per Regeneration	m³	2700	3900	5200	6900
Salt Usage per Regeneration	kg	49.5	72	94.5	126

(1) The nominal capacity has been referred to economy brine consumption of 90 g NaCl/liter of resin.

System Dimensions

Model	Unit	AW2-550	AW2-800	AW2-1050	AW2-1400
Total Installed Length	m	3.20	3.95	4.49	4.67
Total Installed Width	m	1.39	1.70	1.77	1.93
Total Installed Height	m	2.65	2.74	2.82	2.91

Pipes Connections

Model	Unit	AW2-550	AW2-800	AW2-1050	AW2-1400
Feed	DN	80	100	100	100
Outlet	DN	80	80	80	100
Drain	DN	25	32	32	40

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	40

Indoor installation in a non-corrosive atmosphere.

Power Requirements

Voltage	230 VAC / 24 VDC
Frequency	50 Hz (60 Hz on request only)

Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	5
Maximum water temperature	°C	30
Minimum supply pressure	barg	3
Maximum supply pressure	barg	8.5
Max inlet Free Chlorine Cl_2	mg/l	0.1
Max inlet Iron Fe^{3+}	mg/l	0.05
Max inlet Manganese Mn^{2+}	mg/l	0.05

Feed water must have a quality equivalent to potable water, colorless, free from organic contamination, chlorine, Iron, manganese and suspended solids. Raw water shall not contain hardness stabilizing agents and must not be over-saturated with gas.

Materials of Construction

Pressure Vessels	Glass Reinforced Plastic
Pipework	uPVC

Typical Treated Water Quality

Parameter	Unit	Value
Treated Water Hardness	mg/l as $CaCO_3$	< 1