IONSOFT™ Midi

Cost-efficient softeners

The IONSOFT™ Midi is a cost efficient softener range based on ion Exchange resins technology that can be used for industrial applications. It is designed with upflow counter-current regeneration to optimize OPEX.
• 5 vessel sizes.
• Option Duty/Stand-by.

Flow rates from 0.2 to 2.9 m³/h

Power

General Industry

FEATURES & BENEFITS

• User-friendly controller with LCD display integrated in the Control valve.
• Regeneration can be triggered manually or automatically.
• Automatic regeneration is based on Volume and time.
• Optimized usage of regeneration salt: upflow counter-current regeneration and proportional regeneration when resins are only partially exhausted.
• Possibility to have duty/stand-by configuration with 2 vessels (twin-valve).
• Integrated blending device: can be used when target is not to remove completely hardness.

APPLICATIONS

• Drinking water softening
• Glass washing
• Cleaning and rinse water
• RO feed water pre-treatment (eg.before Sirion)
• Cooling towers
• Suitable for laundries and labs

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	15	25	45	70	90
Min Feed Flowrate	m³/h	0.2	0.4	0.5	0.7	0.8
Nominal Feed Flowrate(1)	m³/h	1.6	2.2	2.4	2.7	2.9
Nominal Capacity	kg $CaCO_3$	0.71	1.25	2.23	3.66	4.55
Output per Regeneration(2)	m³	7.1	10.25	22.3	36.6	45.5
Salt Usage per Regeneration	kg	1.75	3.00	5.40	8.40	10.80

Model	Unit	2-15	2-25	2-45	2-70	2-90
Min Feed Flowrate	m³/h	0.2	0.4	0.5	0.7	0.8
Nominal Feed Flowrate(1)	m³/h	1.6	2.2	2.4	2.7	2.9
Nominal Capacity	kg $CaCO_3$	1.43	2.5	4.46	7.32	9.1
Output per Regeneration(2)	m³	7.1	10.25	22.3	36.6	45.5
Salt Usage per Regeneration	kg	1.75	3.00	5.40	8.40	10.80

(1) 1 bar pressure drop
(2) Considering the standard hardness of 100 mg/l as $CaCO_3$

System Dimensions

Model	Unit	15	25	45	70	90
Total Installed Length	m	0.86	0.88	0.89	1.05	1.06
Total Installed Width	m	0.60	0.60	0.60	0.68	0.68
Total Installed Height	m	1.09	1.09	1.3	1.42	1.57

Model	Unit	2-15	2-25	2-45	2-70	2-90
Total Installed Length	m	1.49	1.49	1.50	1.71	1.71
Total Installed Width	m	0.60	0.60	0.60	0.68	0.68
Total Installed Height	m	1.09	1.09	1.3	1.42	1.57

Pipes Connections

Model	Unit	15	25	45	70	90
Feed	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Outlet	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Drain	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT

Model	Unit	2-15	2-25	2-45	2-70	2-90
Feed	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Outlet	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Drain	DN	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT

Feed water Requirements

Parameter	Unit	Value
Minimum water temperature	°C	5
Maximum water temperature	°C	25
Minimum supply pressure	barg	2.5
Maximum supply pressure	barg	6
Max inlet Total Chlorine	mg/l	0.10
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.

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	35

Indoor installation in a non-corrosive atmosphere.

Materials of Construction

Pressure Vessels	Fiberglass
Pipework	Noryl

Power Requirements

Voltage	AC 100-240V
Frequency	50/60 Hz
Phases	1

Typical Treated Water Quality

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

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Designed and Manufactured by Solys Veolia

In keeping with the progressive nature of the company, we reserve the right to amend details without notice. VEOLIA/SOLYS/IONSOFT™ Midi/21/January/2022