

IONSOFT™ Midi (Berkesoft)

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.

Up to 2 units in Duty/Stand-by.

Production flow rate from 0.2 m³/h to 6.4 m³/h.



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.
- Integrated blending device: can be used when target is not to remove completely hardness.

Applications

- Glass washing
- Cleaning and rinse water
- Laundry
- Reverse Osmosis feed water pre-treatment (eg. before Sirion)
- Laboratory
- Cooling towers

Related Services

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

Hydrex™ chemicals

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

System operating parameters and dimensions

Model	Unit	Midi 15	Midi 25	Midi 45	Midi 70	Midi 90
Min production flowrate	m ³ /h	0.2	0.4	0.5	0.7	0.8
Max production flowrate	m ³ /h	2	3.3	5.4	5.9	6.4
Capacity	kgCaCO ₃	0.71	1.25	2.23	3.66	4.55
Length	m	0.86	0.88	0.89	1.05	1.06
Width	m	0.60	0.60	0.6	0.68	0.68
Height	m	1.09	1.09	1.3	1.42	1.57
Connections	-	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Model Duty/ Stand-by	Unit	Midi 2-15	Midi 2-25	Midi 2-45	Midi 2-70	Midi 2-90
Min production flowrate	m ³ /h	0.2	0.4	0.5	0.7	0.8
Max production flowrate*	m ³ /h	2	3.3	5.4	5.9	6.4
Capacity	kgCaCO ₃	1.43	2.50	4.46	7.32	9.10
Length	m	1.49	1.49	1.50	1.71	1.71
Width	m	0.60	0.60	0.6	0.68	0.68
Height	m	1.09	1.09	1.3	1.42	1.57
Connections	-	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT	R1" BSPT
Regeneration (per vessel)						
Water consumption per regeneration	L	85	128	216	328	485
Salt consumption per regeneration	kg	1.75	3	5.4	8.4	10.8

Feed Water requirements

Parameter	Unit	Value
Min water temperature	°C	5
Max water temperature	°C	25
Min inlet pressure	bar	2.5
Max inlet pressure	bar	6

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
Min ambient temperature	°C	5
Max ambient temperature	°C	35

Indoor installation in a non-corrosive atmosphere.

Power requirements

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

For higher flow rates or other processes, consult your local Veolia Water Technologies company, details below.

Visit our website: www.veoliawatertechnologies.com

In keeping with the progressive nature of the company, we reserve the right to amend details without notice.

Veolia/Ionsoft_Midi/DODTSF306306 - Rev A/EN/August2017