

IONSOFT™ Maxi (Berkesoft)

Cost-efficient softeners

The IONSOFT Maxi 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 4 units in parallel .
Up to 2 units in Duty/Stand-by.

Production flow rate from
1 m³/h to 80 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.
- Up to 4 units running in parallel: continuous production.

Applications

- Glass washing
- Cleaning and rinse water
- Laundry
- Reverse Osmosis feed water pre-treatment (eg. before Sirion)
- 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 from Veolia Water Technologies and salt pellets should be used for optimized operation.



System operating parameters and dimensions

Model single vessel	Unit	Maxi 90	Maxi 120	Maxi 140	Maxi 230	Maxi 350
Min production flowrate	m ³ /h	1	1	1.2	2.1	2.8
Max production flowrate	m ³ /h	9	10.5	11.5	19	20
Capacity	kgCaCO ₃	4.6	6.0	7.1	11.7	17.5
Length	m	1.40	1.70	1.70	1.80	1.90
Width	m	0.70	1.05	1.05	1.05	1.10
Height	m	1.63	1.93	1.93	2.00	2.25
Connections	-	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT
Model Duty/ Stand-by	Unit	Maxi 2-90A	Maxi 2-120A	Maxi 2-140A	Maxi 2-230A	Maxi 2-350A
Min production flowrate	m ³ /h	1	1	1.2	2.1	2.8
Max production flowrate	m ³ /h	9	10.5	11.5	19	20
Capacity	kgCaCO ₃	9.3	12.0	14.3	23.4	35.0
Length	m	1.93	2.25	2.28	2.45	2.55
Width	m	0.75	1.05	1.05	1.05	1.15
Height	m	1.75	2.05	2.05	2.03	2.28
Connections	-	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT	Rp 2" BSPT
Model 2 vessels in parallel	Unit	Maxi 2-90P	Maxi 2-120P	Maxi 2-140P	Maxi 2-230P	Maxi 2-350P
Min production flowrate	m ³ /h	2	2	2.4	4.2	5.6
Max production flowrate	m ³ /h	18	21	23	38	40
Capacity	kgCaCO ₃	9.3	12.0	14.3	23.4	35.0
Length	m	2.05	2.60	2.60	2.75	3.10
Width	m	1.20	1.63	1.60	1.75	1.75
Height	m	1.63	1.90	1.93	2.00	2.25
Connections	-	Rp 2" BSPT	Flange DN65	Flange DN65	Flange DN80	Flange DN80
Model 3 vessels in parallel	Unit	Maxi 3-90	Maxi 3-120	Maxi 3-140	Maxi 3-230	Maxi 3-350
Min production flowrate	m ³ /h	3	3	3.6	6.2	8.4
Max production flowrate	m ³ /h	27	31.5	34.5	57	60
Capacity	kgCaCO ₃	13.9	18	21.4	35.1	52.5
Length	m	2.58	3.90	3.90	3.95	4.10
Width	m	1.35	1.83	1.83	1.98	2.10
Height	m	1.63	1.90	1.93	2.00	2.25
Connections	-	Flange DN65	Flange DN80	Flange DN80	Flange DN100	Flange DN100
Model 3 vessels in parallel	Unit	Maxi 4-90	Maxi 4-120	Maxi 4-140	Maxi 4-230	Maxi 4-350
Min production flowrate	m ³ /h	4	4	4.8	8.4	11.2
Max production flowrate	m ³ /h	36	42	46	76	80
Capacity	kgCaCO ₃	18.4	24	28.4	46.8	70
Length	m	3.25	4.80	4.80	4.80	4.90
Width	m	1.35	1.83	1.83	1.98	2.10
Height	m	1.63	1.90	1.93	2.00	2.25
Connections	-	Flange DN80	Flange DN100	Flange DN100	Flange DN125	Flange DN125
Regeneration (per vessel)						
Water consumption per regeneration	L	500	660	770	1265	1925
Salt consumption per regeneration	kg	11.2	14.4	17.2	28.1	42.0

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, free from organic contamination and suspended solids.

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 / DC 15V
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.

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