

# 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 m<sup>3</sup>/h to 80 m<sup>3</sup>/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 <sup>3</sup> /h	1	1	1.2	2.1	2.8
Max production flowrate	m <sup>3</sup> /h	9	10.5	11.5	19	20
Capacity	kgCaCO <sub>3</sub>	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 <sup>3</sup> /h	1	1	1.2	2.1	2.8
Max production flowrate	m <sup>3</sup> /h	9	10.5	11.5	19	20
Capacity	kgCaCO <sub>3</sub>	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 <sup>3</sup> /h	2	2	2.4	4.2	5.6
Max production flowrate	m <sup>3</sup> /h	18	21	23	38	40
Capacity	kgCaCO <sub>3</sub>	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 <sup>3</sup> /h	3	3	3.6	6.2	8.4
Max production flowrate	m <sup>3</sup> /h	27	31.5	34.5	57	60
Capacity	kgCaCO <sub>3</sub>	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 <sup>3</sup> /h	4	4	4.8	8.4	11.2
Max production flowrate	m <sup>3</sup> /h	36	42	46	76	80
Capacity	kgCaCO <sub>3</sub>	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](http://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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